



# PRI Construction Materials Technologies LLC

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## Laboratory Test Status

**Report for:** Dave Swaroop  
G.A.P. Roofing, Inc.  
4444 Hunt Street  
Pryor, OK 74361

**Product Name(s):** G.A.P. Roofing 40# Organic Base Sheet

**Project No.:** 1047T0045

**Date(s) Tested:** June 2, 2021 – June 4, 2021

**Test Method(s):** ASTM E108 Burning Brand

**Results Summary:** See Results Table

**Purpose:** Burning Brand testing was completed in accordance with **ASTM E108: Standard Test Methods for Fire Tests of Roof Coverings**, Class A. Testing was conducted using one underlayment and 3 separate concrete tile roof coverings.

**Test Methods:** Burning Brand Testing was conducted in accordance with **ASTM E108-17: Standard Test Methods for Fire Tests of Roof Covering**. Test parameters were set to evaluate Class A assemblies. All tests were conducted at the slopes listed in the results table.

**Sample Preparation:** Specimens were constructed on Class A assemblies as described in the results table. Specimens were tested upon completion of assembly.

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

<u>Product</u>	<u>Source</u>	<u>Date</u>	<u>Sampling</u>
G.A.P. Roofing 40# Organic Base Sheet	Shafter, CA	Jan. 25, 2021	G.A.P Roofing
Bel Air Concret Roof Tile	Sumterville, FL	Sept. 20, 20212	Eagle Roofing Products Florida
Malibu Concrete Roof Tile	Sumterville, FL	Sept. 20, 20212	Eagle Roofing Products Florida
Capistrano Concrete Roof Tile	Sumterville, FL	Sept. 20, 20212	Eagle Roofing Products Florida

All other materials were procured through local sources of distribution

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**Results: 40# Organic Base Sheet with various concrete tile roof coverings**

Physical Properties	Test Method	Results				Requirement
Fire Resistance, <i>[Class A]</i> Assembly; Class A parameters & requirements Deck: <i>as described</i> System: G.A.P Roofing 40# Organic Base Sheet mechanically attached; roof covering as indicated Tested as received Test Air Velocity = 12±0.5mph Test Class A at 5in:12in	ASTM E108 Burning Brand	1	2	3	4	
	<i>Eagle Roofing Products FL            Bel Air Concrete Roof Tile</i>	Pass	Pass	Pass	Pass	Class A
	<i>Eagle Roofing Products FL            Malibu Concrete Roof Tile</i>	Pass	Pass	Pass	Pass	
	<i>Eagle Roofing Products FL            Capistrano Concrete Roof Tile</i>	Pass	Pass	Pass	Pass	

Note(s) 1 – The first specimen tested with Capistrano Roof Tile failed by allowing sustained flame on the underside of the deck. Per ASTM E108, four (4) test specimens must pass consecutively to meet the requirements of the standard. Specimens 2 through 5 each met passed – yielding compliant test results for the burning brand portion of ASTM E108 with the respective roof cover.

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**Test Results with Bel-Air Roof Tile:**

**Company Name:** G.A.P Roofing  
**Project Number:** 1047T0045  
**Result:** Pass

**Product Name:** 40# Organic Base Sheet BelAir  
**Technician:** BB  
**Date Tested:** 6/2/2021

**Test Type:** Burning Brand  
**Class:** A  
**Brand #:** 1069  
**Brand Weight:** 2036.1

**Deck #:** 1  
**Deck Slope:** 5:12  
**Char Depth:** N.A.

**Plywood % MC:** 7  
**Framing % MC:** 8

Object:	Minutes:	Time:	
		Seconds:	
Brand 25% Consumed	3	59	
Brand 75% Consumed	7	58	
Test Terminated	19	58	

Note: At no time during or after testing were any of the following observed: roof cover or roof deck material blowing/falling off of the test deck in the form of flaming or glowing brands or particles that continue to glow after reaching the floor, the combustible roof deck exposed, or sustained flaming of the underside of the deck.

**Company Name:** G.A.P Roofing  
**Project Number:** 1047T0045  
**Result:** Pass

**Product Name:** 40# Organic Base Sheet BelAir  
**Technician:** JS, BB  
**Date Tested:** 6/3/2021

**Test Type:** Burning Brand  
**Class:** A  
**Brand #:** 1070  
**Brand Weight:** 2049

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

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

Object:	Minutes:	Time:	
		Seconds:	
Brand 25% Consumed	5	3	
Brand 50% Consumed	6	45	
Brand 75% Consumed	10	42	
Test Terminated	20	9	

Note: At no time during or after testing were any of the following observed: roof cover or roof deck material blowing/falling off of the test deck in the form of flaming or glowing brands or particles that continue to glow after reaching the floor, the combustible roof deck exposed, or sustained flaming of the underside of the deck.

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**Company Name:** G.A.P Roofing  
**Project Number:** 1047T0045  
**Result:** Pass

**Product Name:** 40# OrganicBase Sheet BelAir

**Technician:** BB,JS  
**Date Tested:** 6/3/2021

**Test Type:** Burning Brand  
**Class:** A  
**Brand #:** 1071  
**Brand Weight:** 2050

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

**Plywood % MC:** 7  
**Framing % MC:** 8

Object:	Minutes:	Time:	
		Seconds:	
Surface Flames 2 ft. above brand	1		36
Brand 25% Consumed	4		34
Brand 50% Consumed	6		50
Brand 75% Consumed	8		59
Brand 100% Consumed	29		15
Test Terminated	29		16

Note: At no time during or after testing were any of the following observed: roof cover or roof deck material blowing/falling off of the test deck in the form of flaming or glowing brands or particles that continue to glow after reaching the floor, the combustible roof deck exposed, or sustained flaming of the underside of the deck.

**Company Name:** G.A.P Roofing  
**Project Number:** 1047T0045  
**Result:** Pass

**Product Name:** 40# Organic Base

**Technician:** BB  
**Date Tested:** ##

**Test Type:** Burning Brand  
**Class:** A  
**Brand #:** 1072  
**Brand Weight:** 2049

**Deck #:** 4  
**Deck Slope:** 5:12  
**Char Depth:** N.A.

**Plywood % MC:** 7  
**Framing % MC:** 8

Object:	Minutes:	Time:	
		Seconds:	
Brand 25% Consumed	3		46
Brand 50% Consumed	7		8
Brand 75% Consumed	8		43
Test Terminated	18		54

Note: At no time during or after testing were any of the following observed: roof cover or roof deck material blowing/falling off of the test deck in the form of flaming or glowing brands or particles that continue to glow after reaching the floor, the combustible roof deck exposed, or sustained

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**Test Results with Malibu Roof Tile:**

**Company Name:** G.A.P Roofing  
**Project Number:** 1047T0045  
**Result:** Pass  
**Test Type:** Burning Brand  
**Class:** A  
**Brand #:** 1061  
**Brand Weight:** 2049.5

**Product Name:** 40# Organic Base Sheet Malibu  
**Deck #:** 1  
**Deck Slope:** 5:12  
**Char Depth:** N.A.

**Technician:** JS, BB  
**Date Tested:** 6/2/2021  
**Plywood % MC:** 7  
**Framing % MC:** 8

Object:	Time:	
	Minutes:	Seconds:
Brand 25% Consumed	3	9
Brand 50% Consumed	5	9
Brand 75% Consumed	7	18
Asphalt Dripping on Underside	11	7
Discoloration Underside at Plywood Joint	12	59
Brand 100% Consumed	18	49
Test Terminated	19	0

Note: At no time during or after testing were any of the following observed: roof cover or roof deck material blowing/falling off of the test deck in the form of flaming or glowing brands or particles that continue to glow after reaching the floor, the combustible roof deck exposed, or sustained flaming of the underside of the deck.

**Company Name:** G.A.P Roofing  
**Project Number:** 1047T0045  
**Result:** Pass  
**Test Type:** Burning Brand  
**Class:** A  
**Brand #:** 1062  
**Brand Weight:** 2052

**Product Name:** 40# Organic Base Sheet Malibu  
**Deck #:** 2  
**Deck Slope:** 5:12  
**Char Depth:** N.A.

**Technician:** JS, BB  
**Date Tested:** 6/2/2021  
**Plywood % MC:** 8  
**Framing % MC:** 8

Object:	Time:	
	Minutes:	Seconds:
Brand 50% Consumed	7	16
Brand 75% Consumed	8	29
Asphalt Dripping on Underside	11	41
Brand 100% Consumed	16	21
Test Terminated	16	40

Note: At no time during or after testing were any of the following observed: roof cover or roof deck material blowing/falling off of the test deck in the form of flaming or glowing brands or particles that continue to glow after reaching the floor, the combustible roof deck exposed, or sustained flaming of the underside of the deck.

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**Company Name:** G.A.P Roofing  
**Project Number:** 1047T0045  
**Result:** Pass

**Product Name:** 40# Organic Base Sheet Malibu  
**Deck #:** 3  
**Deck Slope:** 5:12  
**Char Depth:** N.A.

**Technician:** JS, BB  
**Date Tested:** 6/2/2021

**Test Type:** Burning Brand  
**Class:** A  
**Brand #:** 1063  
**Brand Weight:** 2047.2

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

Object:	Time:	
	Minutes:	Seconds:
Brand 25% Consumed	4	5
Brand 50% Consumed	6	29
Brand 75% Consumed	13	49
Discoloration Underside at Plywood Joint	15	15
Brand 100% Consumed	20	1
Test Terminated	20	10

Note: At no time during or after testing were any of the following observed: roof cover or roof deck material blowing/falling off of the test deck in the form of flaming or glowing brands or particles that continue to glow after reaching the floor, the combustible roof deck exposed, or sustained flaming of the underside of the deck.

**Company Name:** G.A.P Roofing  
**Project Number:** 1047T0045  
**Result:** Pass

**Product Name:** 40# Organic Base Sheet Malibu  
**Deck #:** 4  
**Deck Slope:** 5:12  
**Char Depth:** N.A.

**Technician:** JS, BB  
**Date Tested:** 6/2/2021

**Test Type:** Burning Brand  
**Class:** A  
**Brand #:** 1064  
**Brand Weight:** 2046.3

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

Object:	Time:	
	Minutes:	Seconds:
Brand 25% Consumed	4	37
Brand 50% Consumed	6	25
Brand 75% Consumed	7	54
Smoke on Underside	8	3
Asphalt Dripping on Underside	8	32
Brand 100% Consumed	17	23
Test Terminated	19	15

Note: At no time during or after testing were any of the following observed: roof cover or roof deck material blowing/falling off of the test deck in the form of flaming or glowing brands or particles that continue to glow after reaching the floor, the combustible roof deck exposed, or sustained flaming of the underside of the deck.

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**Test Results with Capistrano Roof Tile:**

**Company Name:** G.A.P Roofing  
**Project Number:** 1047T0045  
**Result:** **Fail**

**Product Name:** 40# Organic Base Sheet Capistrano

**Technician:** JS, BB  
**Date Tested:** 6/2/2021

**Test Type:** Burning Brand  
**Class:** A  
**Brand #:** 1065  
**Brand Weight:** 2049.9

**Deck #:** 1  
**Deck Slope:** 5:12  
**Char Depth:** N.A.

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

Object:	Minutes:	Time:	
		Seconds:	
Brand 25% Consumed	4		49
Smoke on Underside	4		58
Discoloration Underside at Plywood Joint	6		12
Brand 50% Consumed	6		15
Flames on Underside (un-sustained)	7		25
Brand 75% Consumed	10		15
<b>Flames on Underside (sustained)</b>	10		36
Test Terminated	10		47

Note: At no time during or after testing were any of the following observed: roof cover or roof deck material blowing/falling off of the test deck in the form of flaming or glowing brands or particles that continue to glow after reaching the floor, the combustible roof deck exposed, or sustained flaming of the underside of the deck.

**Company Name:** G.A.P Roofing  
**Project Number:** 1047T0045  
**Result:** **Pass**

**Product Name:** 40# Organic Base Sheet Capistrano

**Technician:** JS, BB  
**Date Tested:** 6/2/2021

**Test Type:** Burning Brand  
**Class:** A  
**Brand #:** 1066  
**Brand Weight:** 2057.8

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

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

Object:	Minutes:	Time:	
		Seconds:	
Brand 25% Consumed	3		15
Brand 50% Consumed	6		40
Brand 75% Consumed	11		7
Brand 100% Consumed	19		25
Test Terminated	19		30

Note: At no time during or after testing were any of the following observed: roof cover or roof deck material blowing/falling off of the test deck in the form of flaming or glowing brands or particles that continue to glow after reaching the floor, the combustible roof deck exposed, or sustained flaming of the underside of the deck.

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**Company Name:** G.A.P Roofing  
**Project Number:** 1047T0045  
**Result:** Pass

**Product Name:** 40# Organic Base Sheet Capistrano

**Technician:** JS, BB  
**Date Tested:** 6/2/2021

**Test Type:** Burning Brand  
**Class:** A  
**Brand #:** 1067  
**Brand Weight:** 2049.5

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

**Plywood % MC:** 7  
**Framing % MC:** 8

Object:	Time:	
	Minutes:	Seconds:
Brand 25% Consumed	4	49
Brand 50% Consumed	7	10
Brand 75% Consumed	10	21
Brand 100% Consumed	18	6
Test Terminated	19	28

Note: At no time during or after testing were any of the following observed: roof cover or roof deck material blowing/falling off of the test deck in the form of flaming or glowing brands or particles that continue to glow after reaching the floor, the combustible roof deck exposed, or sustained flaming of the underside of the deck.

**Company Name:** G.A.P Roofing  
**Project Number:** 1047T0045  
**Result:** Pass

**Product Name:** 40# Organic Base Sheet Capistrano

**Technician:** JS, BB  
**Date Tested:** 6/2/2021

**Test Type:** Burning Brand  
**Class:** A  
**Brand #:** 1067  
**Brand Weight:** 2049.5

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

**Plywood % MC:** 7  
**Framing % MC:** 8

Object:	Time:	
	Minutes:	Seconds:
Brand 25% Consumed	4	49
Brand 50% Consumed	7	10
Brand 75% Consumed	10	21
Brand 100% Consumed	18	6
Test Terminated	19	28

Note: At no time during or after testing were any of the following observed: roof cover or roof deck material blowing/falling off of the test deck in the form of flaming or glowing brands or particles that continue to glow after reaching the floor, the combustible roof deck exposed, or sustained flaming of the underside of the deck.

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**Company Name:** G.A.P Roofing  
**Project Number:** 1047T0045  
**Result:** Pass

**Product Name:** 40# Organic Base Sheet Capistrano

**Technician:** JS  
**Date Tested:** 6/4/2021

**Test Type:** Burning Brand  
**Class:** A  
**Brand #:** 1073  
**Brand Weight:** 2062.9

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

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

Object:	Time:	
	Minutes:	Seconds:
Brand 25% Consumed	4	38
Brand 50% Consumed	5	30
Brand 75% Consumed	7	39
Discoloration Underside at Plywood Joint	16	22
Brand 100% Consumed	16	45
Test Terminated	18	2

Note: At no time during or after testing were any of the following observed: roof cover or roof deck material blowing/falling off of the test deck in the form of flaming or glowing brands or particles that continue to glow after reaching the floor, the combustible roof deck exposed, or sustained flaming of the underside of the deck.

## END OF TEST STATUS

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