



## PRI Construction Materials Technologies LLC

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### Laboratory Test Report

**Report for:** Jason Rochester  
Stepstone, LLC  
17025 South Main St.  
Gardena, CA 90248

**Product Name(s):** Cal Arch Paver Café Brown #1407 Light Sandblast (Slag)

**Project No.:** 2806T0003

**Dates Tested:** May 28, 2025

**Test Methods:** ASTM C 1371  
ASTM C 1549  
ASTM E 1980

**Results Summary:** Solar Reflectance: 0.273  
Thermal Emittance: 0.91  
SRI (Medium-Wind): 29

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**Purpose:** Determine the solar reflectance, thermal emittance, and solar reflectance index value(s) of the tested product(s).

**Test Methods:** The test methods used included ASTM C 1549-16: *Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Reflectometer* and ASTM C 1371-15: *Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers*. Thermal emittance measurement for samples was modified in accordance with Devices and Services Company's Tech Note 04-1. Both of these methods are Energy Star, Leadership in Energy and Environmental Design (LEED), and Cool Roof Rating Council (CRRC) approved methods for determining radiative properties.

The solar reflectance index (SRI) was calculated in compliance with ASTM E 1980-11: *Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces*.

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#### 2806T0003.9

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

| <u>Product</u>                                            | <u>Source</u> | <u>Date</u>  | <u>Sampling</u> |
|-----------------------------------------------------------|---------------|--------------|-----------------|
| Cal Arch Paver Café Brown #1407<br>Light Sandblast (Slag) | Gardena, CA   | May 16, 2025 | Stepstone, LLC  |

**Results:**

**ASTM E 1980**

|                                                                | Solar Reflectance        |          | Thermal Emittance        |          | SRI                      |          |           |
|----------------------------------------------------------------|--------------------------|----------|--------------------------|----------|--------------------------|----------|-----------|
|                                                                | ASTM C 1549 <sup>1</sup> |          | ASTM C 1371 <sup>2</sup> |          | ASTM E 1980 <sup>3</sup> |          |           |
|                                                                | Avg.                     | Std.Dev. | Avg.                     | Std.Dev. | Low-Wind                 | Med-Wind | High-Wind |
| One (1) Specimen<br>As Received<br>Test @ 73.4±1.8°F & 50±5%RH | 0.273                    | 0.002    | 0.91                     | 0.00     | 29                       | 29       | 29        |

Note(s):

- 1- Reflectance measurements were conducted using a Devices and Services SSR-ER Version 6.4 Reflectometer operated in v5 emulation mode and calibrated with Devices and Services Reference Tile # D-18.
- 2- Emittance measurements were conducted using a Devices and Services Emissometer Model AE calibrated with Devices and Services Reference Standards: High Emittance: 0.86 and Low Emittance: 0.06. Thermal emittance measurement for sample was modified in accordance with Devices and Services Company's Tech Note 04-1.
- 3- SRI calculations per ASTM E 1980 Approach II utilize the following assumptions: Low-Wind  $h_c = 5 \text{ W/m}^2\text{-K}$ , Medium-Wind  $h_c = 12 \text{ W/m}^2\text{-K}$ , and High-Wind  $h_c = 30 \text{ W/m}^2\text{-K}$ .

**Statement of Attestation:** The Solar Reflectance Index of these samples was calculated in accordance with **ASTM E1980: Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces**. The laboratory test results presented in this report are representative of the materials supplied.

**Signed:**

  
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Anthony Catlett  
Manager

**Date:**

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May 29, 2025

**Report Issue History:**

| Issue #  | Date       | Pages | Revision Description (if applicable) |
|----------|------------|-------|--------------------------------------|
| Original | 05/29/2025 | 2     | NA                                   |

**END OF REPORT**

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