



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 Brick Red #1816 Light Sandblast

Project No.: 2806T0001

Dates Tested: March 20, 2025

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

Results Summary: Solar Reflectance: 0.227
Thermal Emittance: 0.93
SRI (Medium-Wind): 24

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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Sampling: The following materials were received by PRI.

Product	Source	Date	Sampling
Cal Arch Paver Brick Red #1816 Light Sandblast	Gardena, CA	Mar. 17, 2025	Stepstone, LLC

Results:

ASTM E 1980

	Solar Reflectance		Thermal Emittance		SRI		
	ASTM C 1549 ¹		ASTM C 1371 ²		ASTM E 1980 ³		
	Avg.	Std.Dev.	Avg.	Std.Dev.	Low-Wind	Med-Wind	High-Wind
One (1) Specimen As Received Test @ 73.4±1.8°F & 50±5%RH	0.227	0.002	0.93	0.00	24	24	24

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:


 Anthony Catlett
 Manager

Date:

March 20, 2025

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	03/20/2025	2	NA

END OF REPORT

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