PRI Construction Materials Technologies LLC

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Laboratory Test Report

Report for: Aida Ricetti
Hardscape.com
15132 Park of Commerce Blvd. Ste # 103
Jupiter, FL 33487

Product Name(s): Ancient Grey

Project No.: 2275T0003.13

Dates Tested: Sep. 14, 2021

Test Methods: ASTM C1371
ASTM C1549
ASTM E1980

Results Summary:

Product	SRI, Medium-Wind
Ancient Grey	37

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 C1549-16: *Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Reflectometer*, Procedure B and ASTM C1371-15: *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 E1980-11: *Standard Practice for Calculating Solar Reflectance Index of Horizontal and Low-Sloped Opaque Surfaces.*

Sampling: The following materials were received by PRI.

Product	Source	Date	Sampling
Ancient Grey	Tampa, FL	Sep. 13, 2021	Hardscape.com

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Results: All measurements were recorded at 73.4±1.8°F & 50±5%RH

ASTM E 1980

Product	Solar Reflectance ASTM C1549[1]		Thermal Emittance ASTM C1371[2]		SRI ASTM E1980[3]		
	Avg.	Std.Dev.	Avg.	Std.Dev.	Low-Wind	Med-Wind	High-Wind
Ancient Grey - 24" x 24" x 1-1/8"	**0.334**	0.005	**0.91**	0.01	37	37	37

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 W/m^2·K, Medium-Wind h_c 12 W/m^2·K, and High-Wind h_c = 30 W/m^2·K.

Statement of Attestation: The Solar Reflectance Index of these samples was calculated in accordance with **ASTM E 1980:** ***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: 

Brent Barbeau
Manager

Date: Sep. 22, 2021

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	Sep. 22, 2021	2	NA

END OF REPORT

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