



CONSTRUCTION MATERIALS

TECHNOLOGIES

LABORATORY TEST RESULTS

Report for: Inca Stone Inc.
980 F Street #20
West Sacramento, CA 95605

Attention: Eric Bisellach

Product(s): four (4) samples (see below)	Manufacturer: Inca Stone, Inc.
Date Received: February 13, 2014	Source: Inca Stone, Inc.
PRI-CMT Project No.: PROS-026-02-01	Test Date(s): February 21, 2014

Purpose: The purpose of this testing was to determine the solar reflectance, thermal emittance, and solar reflectance index value of three (3) samples:

- *Alpaca 12x12*
- *Siena 12x12*
- *Cremino 12x12*
- *Cremino 8x8*

Materials: The sample for testing was received from Inca Stone, Inc.. The sample was labeled as indicated in the data table in the results section of this report.

Test Methods: The test methods used included ASTM C 1549-09: *Standard Test Method for Determination of Solar Reflectance Near Ambient Temperature Using a Portable Reflectometer* and ASTM C 1371-04a(2010)^{e1}: *Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emitters*. 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*.

PROS-026-02-01 PRI-CMT Accreditations: IAS TL-189; Miami-Dade 11-0429.05; Florida TST5878; Los Angeles TA24819; CRRC
The test results, opinions, or interpretations are based on the material supplied by the client. This report is for the exclusive use of stated client. No reproduction or facsimile in any form can be made without the client's permission. This report shall not be reproduced except in full without the written approval of this laboratory. PRI Construction Materials Technologies, LLC. assumes no responsibility nor makes a performance or warranty statement for this material or products and processes containing this material in connection with this report.

Results: All measurements were conducted at 72±3°F and 50±5%RH.

Sample ID	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	Medium-Wind	High-Wind
Alpaca 12x12	0.463	0.016	0.89	<0.01	53	53	54
Siena 12x12	0.532	0.028	0.89	<0.01	62	62	63
Cremino 12x12	0.684	0.004	0.89	<0.01	83	83	83
Cremino 8x8	0.648	0.038	0.88	<0.01	78	78	78

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 Emittance Model AE calibrated with Devices and Services Reference Standards: High Emittance: 0.90 and Low Emittance: 0.06.
 3- SRI calculations per ASTM E 1980 utilize the following assumptions: Low-Wind $h_c = 5 \text{ W/m}^2\cdot\text{K}$, Medium-Wind $h_c = 12 \text{ W/m}^2\cdot\text{K}$, and High-Wind $h_c = 30 \text{ W/m}^2\cdot\text{K}$.

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: _____


Jason Simmons
 Director

Date: _____ March 13, 2014

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	03/13/2014	2	NA

END OF REPORT

PROS-026-02-01 PRI-CMT Accreditations: IAS TL-189; Miami-Dade 11-0429.05; Florida TST5878; Los Angeles TA24819; CRRC
 The test results, opinions, or interpretations are based on the material supplied by the client. This report is for the exclusive use of stated client. No reproduction or facsimile in any form can be made without the client's permission. This report shall not be reproduced except in full without the written approval of this laboratory. PRI Construction Materials Technologies, LLC. assumes no responsibility nor makes a performance or warranty statement for this material or products and processes containing this material in connection with this report.