



CONSTRUCTION MATERIALS

TECHNOLOGIES

LABORATORY TEST RESULTS

Report for: Global Innovation, LLC
496 SW Ring Court
Lake City, FL 32025

Attention: Nick Rimert

Product:	Endureed "Regions" - Cape Town	Manufacturer:	Global Innovation, LLC
Project No.:	CCR-013-02-01	Source:	Global Innovation, LLC
Date Received:	July 27, 2016	Date Tested:	August 16-17, 2016

Purpose: The purpose of this testing was to determine the solar reflectance, thermal emittance, and solar reflectance index value.

Materials: The samples for testing were received from Global Innovation, LLC. The samples were labeled as indicated in the data table in the results section of this report.

Test Methods: The test methods used included ASTM E 1118-06(2015): *Standard Test Method for Measuring Solar Reflectance of Horizontal and Low-Sloped Surfaces in the Field* and ASTM C 1371-04a(2010)^{e1}: *Standard Test Method for Determination of Emittance of Materials Near Room Temperature Using Portable Emissometers*. 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*.

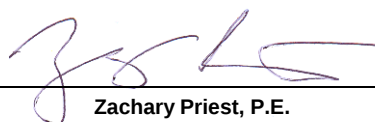
CCR-013-02-01A PRI-CMT Accreditations: IAS TL-189; Miami-Dade 11-0429.05; Florida TST5878; Los Angeles TA24819; CRRC
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Results: All measurements were conducted at 72±3°F and 50±5%RH.

Sample ID	Solar Reflectance		Thermal Emittance		SRI		
	ASTM E 1918		ASTM C 1371 ¹		ASTM E 1980 ²		
	Avg.	Std.Dev.	Avg.	Std.Dev.	Low-Wind	Med.-Wind	High-Wind
Endureed "Regions" Color: Cape Town	0.304	0.001	0.90	0.00	32	33	33

Note(s): 1- Emittance measurements were conducted using a Devices and Services Emissometer Model AE calibrated with Devices and Services Reference Standards: High Emittance: 0.90 and Low Emittance: 0.06. Thermal emittance measurement for "concrete paver" sample was modified in accordance with Devices and Services Company's Tech Note 04-1.
 2- SRI calculations per ASTM E 1980 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 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: 
 Zachary Priest, P.E.
 Director

Report Issue History:

Issue #	Date	Pages	Revision Description (if applicable)
Original	08/22/2016	2	NA

END OF REPORT

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