



To: Whom It May Concern,

Re: FloorScore and Volatile Organic Compounds (VOCs)

Portobello America ceramic and porcelain products do not contain VOCs. The manufacturing process involves elevated temperatures near 1200 °C. Temperatures at this extreme burn out organic compounds, including volatiles. This makes porcelain and ceramic products inherently non-emitting.

Portobello America does not certify any of our products under FloorScore or similar programs. This certification is not needed to meet LEED or CHPS criteria.

LEED 2009/LEED V4 recognizes the inherent low VOC properties of ceramic and porcelain tiles and specifically exempts ceramic/mineral-based flooring (without organic coatings) from testing. Such products are considered compliant without testing and qualify for a low emitting credit.

Our products are in conformance with the California Department of Public Health Standard method for Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers, Version 1.1, February 2010 (also known as Specification 01350).

We intend to remain in compliance with the above programs as our process and material types shall remain constant.

If there is a need to quantify this, we have attached a report of a typical product.

If you have any further questions, feel free to contact me.

Sincerely,

A handwritten signature in black ink, appearing to read "James Neel".

James Neel
Ceramic Technical Manager

Research Triangle Park Laboratories, Inc.

7201 ACC Blvd., Suite 104
Raleigh, NC 27617

919 510-0228 Telephone
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Web Site: www.rtp-labs.com



ISO 17025 Compliant
PA Registration #68-1664
DEA Registered

April 22, 2024

International Product Assurance Laboratories
100 Clemson Research Boulevard
Anderson, SC 29625

Attn: Ashley Moore

PROJECT: VOCs Testing –Report of VOC Chamber Tests.

Purchase Order: 4635

RTP Labs ID: 24-019-01 Portobello America Serena Frost IPAL-0186-24

Enclosed with this letter is the report for the sample received on March 25, 2024 in good condition. The manufacturing date is listed on the COC form. The sample was tested for VOCs emissions according to ASTM D5116 Small Chamber Test and California Specification 01350 Test Methods. The sample was prepared according to the sample preparation descriptions as described in CA 01350. The chamber testing was started on March 29, 2024 with a 10-day conditioning period, followed by a 96-hour test as described in CA 01350.

The test results are summarized in the attached document. The testing method reporting limits are 0.001 mg/m³ using the California Standard Classroom Model.

If you have any questions, please give me a call at (919) 510-0228.

Sincerely,

Alston Sykes, Principal Chemist
Attachments: attachments and photos

Research Triangle Park Laboratories Inc, 7201 ACC Blvd., Raleigh, NC 27617

California 01350/ASTM D5116 Small Chamber Tests for Volatile Organic Compound Emissions From Products

Project ID: 24-019-01

Client: Tile Council of North America

Sample Receipt Date: March 25, 2024

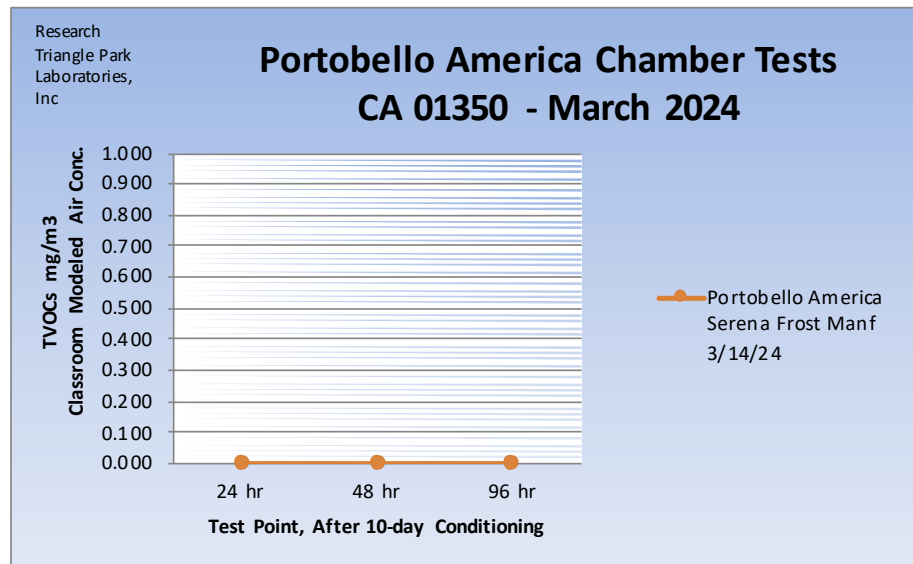
Test Start Dates: March 29, 2024

Products:

Portobello America Serena Frost Manf 3/14/24

Modeled Standard Classroom Concentration, mg/m³

24 hr	48 hr	96 hr	LOQ
0.000	0.000	0.000	0.001



Standard Classroom Model Parameters:

Room Dimensions: 40 ft length x 24 ft wide x 8.5 ft ht

Room Volume: 231 m³

Ventilation Rate: 0.90 air changes per hour

Net Floor Surface: 89.2 m²

Chamber and Sample Conditions:

Chamber Volume: 50 Liters

Temperature: 20-25 C; Relative Humidity: 45-55 %

Air Exchange Rate: 1 per hour (0.833L/min = 50 liters)

Sample Surface Area: 0.0232 m²

Sample Loading Factor: 0.5 m²/m³

Sample Receipt Date: 3/25/2024

Test Start Date: 3/29/2024

10 day conditioning performed prior to 96 h testing.

Project ID: 24-019-01

Sample ID: Portobello America Serena Frost Manf 3/14/24

Client: IPA Labs

Standard Classroom Parameters

Room Dimensions, ft 40x24x8.5

ASTM D5116 Small Chamber Method

Room Volume, m3 231

Ventilation Rate, ach 0.9

Net Surface Area, m2 89.2

California Specification 01350

Paints and Wallcoverings Model: 94.6 m2

Flooring Products Model: 89.2 m2

Flooring Products Model: 89.2 m2		Emission Factors (ug/(m2*h))						Cm		Cm		Cm		
		04/09/24		04/10/24		04/12/24		Classroom:		Classroom		Classroom:		
		24 hr		48 hr		96 hr		24 hr		: 48 hr		96 hr		1/2 CREL
		Chamber		Chamber		Chamber		Modeled		Modeled		Modeled		12/2008
		Conc.		Conc.		Conc.		Air Conc.		Air Conc.		Air Conc.		(A)Acute
Compound Name		ug/m3	24 hr EF	ug/m3	48 hr EF	ug/m3	96 hr EF	ug/m3		ug/m3		ug/m3		(C)Chronic
<u>GC/MS Target, LOQ 2 ng/L (ug/m3)</u>														
None Detected		0	0.0	0	0.0	0	0.0	0.0		0.0		0.0		
		0	0.0	0	0.0	0	0.0	0.0		0.0		0.0		
		0	0.0	0	0.0	0	0.0	0.0		0.0		0.0		
<u>GC/MS TICs, LOQ 5 ng/L (ug/m3)</u>														
None Detected		0	0.0	0	0.0	0	0.0	0.0		0.0		0.0		
		0	0.0	0	0.0	0	0.0	0.0		0.0		0.0		
		0	0.0	0	0.0	0	0.0	0.0		0.0		0.0		
		0	0.0	0	0.0	0	0.0	0.0		0.0		0.0		
		0	0.0	0	0.0	0	0.0	0.0		0.0		0.0		
		0	0.0	0	0.0	0	0.0	0.0		0.0		0.0		
<u>HPLC Aldehydes, LOQ 2 ng/L (ug/m3)</u>														
Formaldehyde		0.0	0.0	0	0.0	0.0	0.0	0.0		0.0		0.0		4.5 C
Acetaldehyde		0.0	0.0	0	0.0	0.0	0.0	0.0		0.0		0.0		70 C
TVOCs LOQ 25 ng/L (ug/m3) Use 1 for < v value		0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	ug/m3
								0.000		0.000		0.000		mg/m3

Reporting Limit, 0.001 mg/m3