TILE COUNCIL OF NORTH AMERICA, INC.

PRODUCT TESTING SERVICE

100 Clemson Research Blvd. ☐ Anderson, SC 29625 ☐ Tel (864) 646-TILE ☐ Fax (864) 646-2821

TECHNICAL REPORT

PREPARED FOR GRANITIFIANDRE-STONEPEAK CERAMICS
BY TILE COUNCIL OF NORTH AMERICA, INC.

CONFIDENTIAL

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July 27, 2010

GranitiFiandre Spa
Via Radici Nord, 112
42014 Castellarano RE – Italy

StonePeak Ceramics, Inc.
314 W. Superior St.,
Chicago, IL 60654 – USA

Dear Mr. Verdi:

Please find herein Tile Council of North America's official laboratory report assessing effects of photocatalytic activity of tile samples supplied by GranitiFiandre using a *modified microbial inhibition test (modified to provide a uniform resource base on samples)*. If you have any questions or require clarification on any of the methods, materials or interpretation of results, please feel free to contact our laboratory. We would be glad to discuss any specifics with you or your designated agents.

It has been a pleasure to work with you on this project. On behalf of our staff, we thank you for the opportunity to provide these testing services to you.

Sincerely,

Claudio Bizzaglia
Director of Laboratory Services

Jennifer J. Ariss, PhD
Research and Standards
Development Scientist

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TEST REQUESTED BY:

GranitiFiandre Spa
Via Radici Nord, 112
42014 Castellarano RE – Italy

StonePeak Ceramics, Inc.
314 W. Superior St.,
Chicago, IL 60654 – USA

TEST SUBJECT MATERIAL: Test materials identified by Client as:
"White Ground Pre.Active PF3236PA" and
"White Ground Active PFAP3236"
Test materials received: 03/23/2010
Received as: 60 cm × 30 cm tiles

TEST DATE: 06/16/2010 – 07/16/2010

TEST PROCEDURE: Modified microbial inhibition, qualitative test – modified to provide a uniform resource base on both **"Active"** and **"Pre.Active"** samples under photocatalytic conditions (exposed to UV light for 30 days). Percent coverage by fungal colonization is assigned at 30 days.

TEST CONDITIONS:
Test sample: 30 mm × 30 mm, 9 mm thick
Sample pre-exposure: None
Temperature: 23±2˚C
Humidity: 60±10%
UV lamp: Interlight F40 T10/BLB 130V 40W
UV light radiometer: Mannix UV340
UV light exposure: 30 days
Irradiation intensity: 0.25 mW/cm^2
Organism tested: *Aspergillus brasilliensis* (ATCC No. 9642, formerly *A. niger*)
Initial inoculum concentration: 1.00×10^6 spores/mL

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TEST RESULTS:

Table 1: Percentage of fungal growth covering the surface of the **"Active"** samples

Sample number	Sample description	Percentage coverage
1	A1	<10%
2	A2	20%
3	A3	10%
4	A4	20%
5	A5	15%
6	A6	15%
7	A7	<10%
8	A8	25%
9	A9	<10%
10	A10	<10%

Table 1: Percentage of fungal growth covering the surface of the **"Pre.Active"** samples

Sample number	Sample description	Percentage of coverage
1	C1	70%
2	C2	70%
3	C3	70%
4	C4	55%
5	C5	50%
6	C6	65%
7	C7	70%
8	C8	75%
9	C9	90%
10	C10	80%

Prepared by:

July 27, 2010

Dr. Jyothi Rangineni Date

Research Scientist

Approved by:

July 27, 2010

Dr. Jennifer Ariss Date

Research and Standards Development Scientist