



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

Testing Services: testing@tileusa.com ☐ Literature Orders: literature@tileusa.com ☐ Web Site: www.tileusa.com

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REPORT NUMBER:

TCNA-C-91510

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October 22, 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:

Per your request, the attached pages contain compiled test data from previously issued test reports 'Phase II Antibacterial' and 'TCNA 097-10' issued September 9, 2009 and August 6, 2010, respectively.

As these test data are compiled from two separate test dates, all data herein are not strictly comparable. We encourage GranitiFiandre-StonePeak Ceramics to submit samples for additional testing so that direct comparisons may be made between your product and alternate substrates. TCNA would be pleased to work with you on developing testing to achieve this goal.

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.

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** **StonePeak Ceramics, Inc.**
Via Radici Nord, 112 314 W. Superior St.,
42014 Castellarano RE – Italy Chicago, IL 60654 – USA

TEST SUBJECT MATERIAL: Test materials identified by client as:
“White Ground Active PFAP3236”
Test materials received: 03/23/2010
Received as: 60 cm × 30 cm tiles
Comparative test surfaces provided by TCNA:
Vinyl composite tiles
Oak hardwood flooring
Generic carpet

TEST DATES: 04/06/2010 – 04/25/2010 for
“White Ground Active PFAP3236”

07/13/2009-09/09/2009 for
Vinyl composite tiles (VCT)
Oak hardwood flooring
Generic carpet

TEST PROCEDURE: ISO 27447: Test method for antibacterial activity of semiconducting photocatalytic materials



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TEST CONDITIONS:

Test sample: 50 mm × 50 mm square, 9 mm thick

Sample pre-exposure: None

Test bacteria: *E. coli* ATCC 8739

S. aureus ATCC 6538P

K. pneumoniae ATCC 4352

UV lamp: Interlight F40 T10/BLB 130V 40W

UV light radiometer: Mannix UV340

UV light exposure: 8hrs

Irradiation intensity: 0.25mW/cm²

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TEST RESULTS:

K. pneumoniae:

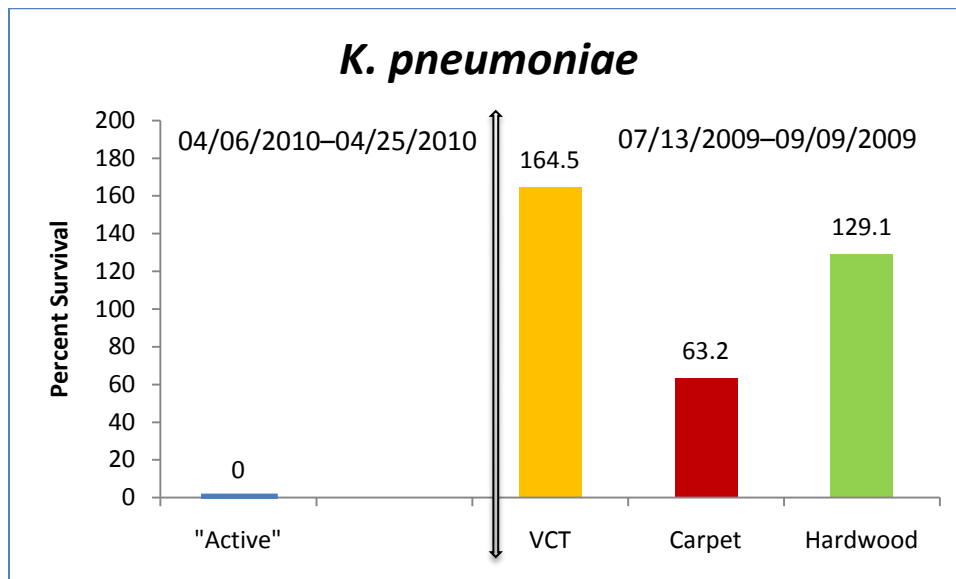


Figure 3: Results are presented in the format of percent of surviving bacteria compared to initial inoculums.

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TEST RESULTS:

S. aureus:

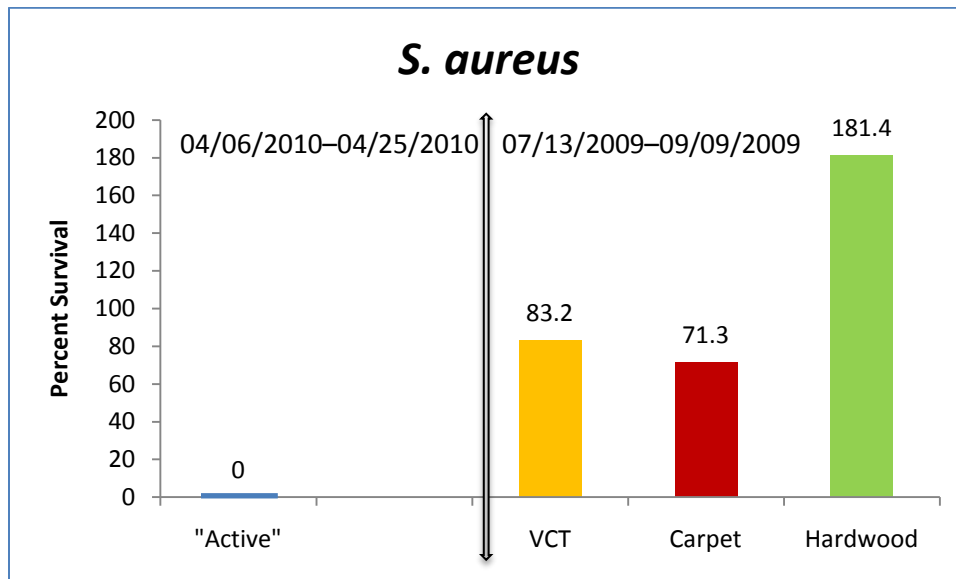


Figure 2: Results are presented in the format of percent of surviving bacteria compared to initial inoculums.

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TEST RESULTS:

E. coli:

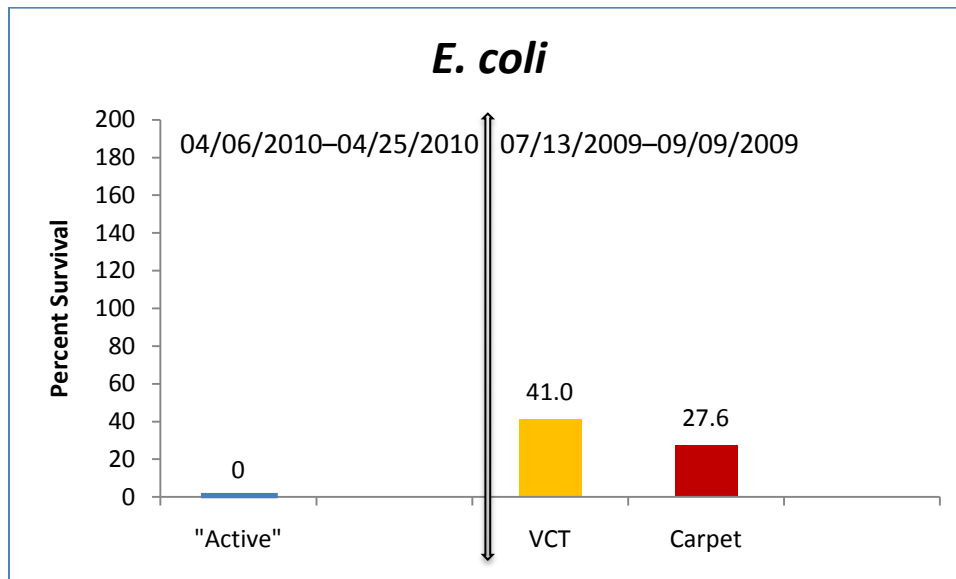


Figure 1: Results are presented in the format of percent of surviving bacteria compared to initial inoculums. Hardwood surface is not presented due to low reproducibility across sample surfaces.

Prepared by:

Approved by:



Dr. Jyothi Rangineni
Research Scientist

10/22/2010
Date



Dr. Jennifer Ariss
Research and Standards
Development Scientist

10/22/2010
Date