



PRODUCT TESTING SERVICE

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

April 14, 2014

Stonepeak Ceramics
Attn: Nadia Bucci
238 Porcelain Tile Drive
Crossville, TN 38555

Dear Ms.Bucci,

Tile Council of North America has tested the samples you submitted. Test report TCNA-074-14 is enclosed. If you have any questions or concerns, please contact us.

Best Regards,

TILE COUNCIL OF NORTH AMERICA, INC.

Katelyn Simpson
Laboratory Manager
Enclosures



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TCNA TEST REPORT NUMBER: TCNA-074-14

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TEST REQUESTED BY: Stonepeak Ceramics

TEST SUBJECT MATERIAL: Identified by client as: "Plane Collection"

TEST DATE: April 1 – April 2, 2014

TEST PROCEDURE: ASTM C627: "A Standard Test Method for Evaluating Ceramic Floor Tile Installation Systems Using the Robinson-Type Floor Tester"

TEST AND MATERIAL DESCRIPTION:

As per client's request, the following materials have been used for the preparation of the testing pads.

Material Description			
Item #	Product name and size	Product code	Provided By:
1	Concrete base with a smooth finish Nominal Size: 48" x 48" x 2" (1219mm x 1219mm x 51mm)	N/A	TCNA
2	Custom Prolite® Tile and Stone mortar	Code 52210 2403101 L	Stonepeak Ceramics
3	Plane Collection 47" x 47" x 0.25" tile	Lot# 550	Stonepeak Ceramics
4	1/4" x 1/4" Square notched trowel	N/A	TCNA
5	1/2" x 1/2" Euro Notched trowel	N/A	TCNA
6	Heavy Rubber tamper (Ramondi PVC Beating Block)	N/A	TCNA

TYPE OF INSTALLATION:

All the materials used were specified by the client and the tested assembly was built per the client's instructions. The installation was a porcelain tile over concrete substrate.

The porcelain tile, "Plane collection", was installed over the concrete substrate using "Prolite® Tile and Stone mortar". Further details about the installation are provided below.

Base:

A 48" x 48" x 2" concrete base was prepared and cured for a minimum of 28 days prior to testing.

Tile preparation:

The 47" x 47" x 0.25" tile was cut prior to being shipped to TCNA.

Katelyn Simpson
Laboratory Manager

4/14/14
Date



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Tile and Grout:

All tile installation was performed by a TCNA representative. The installation procedure is outlined below.

Custom Prolite® Tile and Stone mortar was mixed water per manufacturer's instructions (mix ratio 38:100 by weight) and was troweled over the concrete subfloor with a 1/2" x 1/2" Euro notched trowel. The thin-set was combed with the notched side to form parallel ridges. The Plane Collection tile was back-buttered with a scratch coat then a 1/4" x 1/4" square notched trowel was used to trowel lines on the back of the tile. Special care was taken to ensure that the combed ridges on the backs of the tile and the ridges on concrete subfloor were running parallel to one another. The back buttering was increased on each corner of the tile. After the tile was installed, it was tapped with a heavy rubber tamper to attempt to eliminate any air pockets or voids underneath the tiles. Once set, the tiles were allowed to cure for 28 days before testing the assembly.

TEST RESULTS:

The installation completed all fourteen cycles with no evidence of damage to the tile. All evaluation criteria were based on one tile in the wheel path of the Robinson-Type Floor Tester.

CONCLUSION:

In accordance with the Performance-Level Requirement Guide and Selection Table of the 2013 *TCNA Handbook for Ceramic, Glass, and Stone Tile Installation* (page 40), the test pad results are classified "EXTRA HEAVY".

Katelyn Simpson
Laboratory Manager

4/14/14
Date

Appendix: Photos



Image 1: Full assembly after testing

A handwritten signature in black ink that reads "Katelyn Simpson".

Katelyn Simpson
Laboratory Manager

4/14/14
Date