



PRODUCT PERFORMANCE TESTING LABORATORY

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August 26, 2019

Solitrade/SoliBlock Floor HP
Attn: Mark Haddad
1235 East Blvd. 207
Charlotte, NC 28203

Dear Mr. Haddad,

Tile Council of North America has tested the samples you submitted. Test report TCNA-0756-19 is enclosed. Note, the results within this report were first reported in TCNA test report TCNA-0278-15. If you have any questions or concerns, please contact us.

Best Regards,

TILE COUNCIL OF NORTH AMERICA, INC.

Katelyn Simpson
Laboratory Manager
Enclosures

**TCNA TEST REPORT NUMBER: TCNA-0756-19****PAGE: 1 OF 7****TEST REQUESTED BY: Solitrade/SoliBlock Floor HP****TEST SUBJECT MATERIAL:** Identified by client as: "SoliBlock Floor HP+"**TEST DATE:** August 22-24, 2015**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 were used for the preparation of the testing pad.

Material Description			
Item #	Product name and size	Product Codes	Provided By:
1	Concrete base with a smooth finish Nominal Size: 48" x 48" x 2" (1219 mm x 1219 mm x 51 mm)	N/A	TCNA
2	Laticrete 253 Gold thin-set	0253-0050-22	Client
3	SoliBlock Floor HP+	Not Provided	Client
4	12" x 12" Crossville porcelain tiles	A825	TCNA
5	Laticrete Permacolor Select grout	2678-1001-2	Client

TYPE OF INSTALLATION:***All the materials used were specified by the client and the tested assembly was built per the client's instructions.***

The system consisted of a concrete subfloor with underlayment, and with porcelain tile. Further details about the installation are provided below.

Base and Underlayment:

The installation of the underlayment was performed by a TCNA representative. The installation procedures are outlined below.

A 48" x 48" x 2" concrete base was prepared and cured for more than 28 days prior to use.

Laticrete 253 Gold thin-set mortar, mixed per manufacturer's instructions (mix ratio 22.9:100 by weight), was troweled over the concrete with a 3/32" V-notched trowel. The thin-set first keyed in with the flat side of the trowel then combed with the notched side to form parallel ridges. The SoliBlock Floor HP+ sound control membrane was cut to 48" x 48" and laid in the thin-set. Once in place the mat was rolled with a 35 pound roller.



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Tile preparation:

The tiles were nominal size 12" x 12" and were installed in full pieces in the wheel path of the Robinson floor tester.

Tile and Grout:

All tile installation and grouting was performed by a TCNA representative. The installation procedures are outlined below.

Laticrete 253 thin-set mortar, mixed per manufacturer's instructions (mix ratio 22.9:100 by weight), was troweled over the underlayment with a 1/4"x 3/8" square-notched trowel. The thin-set first keyed in with the flat side of the trowel then combed with the notched side to form parallel ridges. The 12" x 12" Crossville porcelain tiles were back buttered with a skim coat before setting. Once set, the tiles were allowed to cure for 24 hours before grouting.

Laticrete Permacolor Select grout, mixed per manufacturer's instructions (mix ratio 16.7:100), was forced into the 1/16" grout joints with a rubber float. Excess grout was removed with the edge of the float. The grout was allowed to set up for approximately 20 minutes before the installation was cleaned with a sponge and water. The grouted installation was subsequently allowed to cure for 15 days per the client's request.

TEST RESULTS:

The installation completed six cycles with no evidence of damage to the tiles or grout joints. At the completion of cycle seven (hard rubber wheels, three hundred pounds per wheel), there were four broken tiles and one spalled grout joints. All evaluation criteria were based on 8 tiles and 8 grout joints in the wheel path of the Robinson-Type Floor Tester.

HANDBOOK CLASSIFICATIONS*:

Classification	Cycles
Residential	Passes cycles 1-3
Light	Passes cycles 1-6
Moderate	Passes cycles 1-10
Heavy	Passes cycles 1-12
Extra Heavy	Passes cycles 1-14

**For more detailed information, refer to the TCNA Handbook for Ceramic, Glass, and Stone Tile Installation.*

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Appendix: Photos

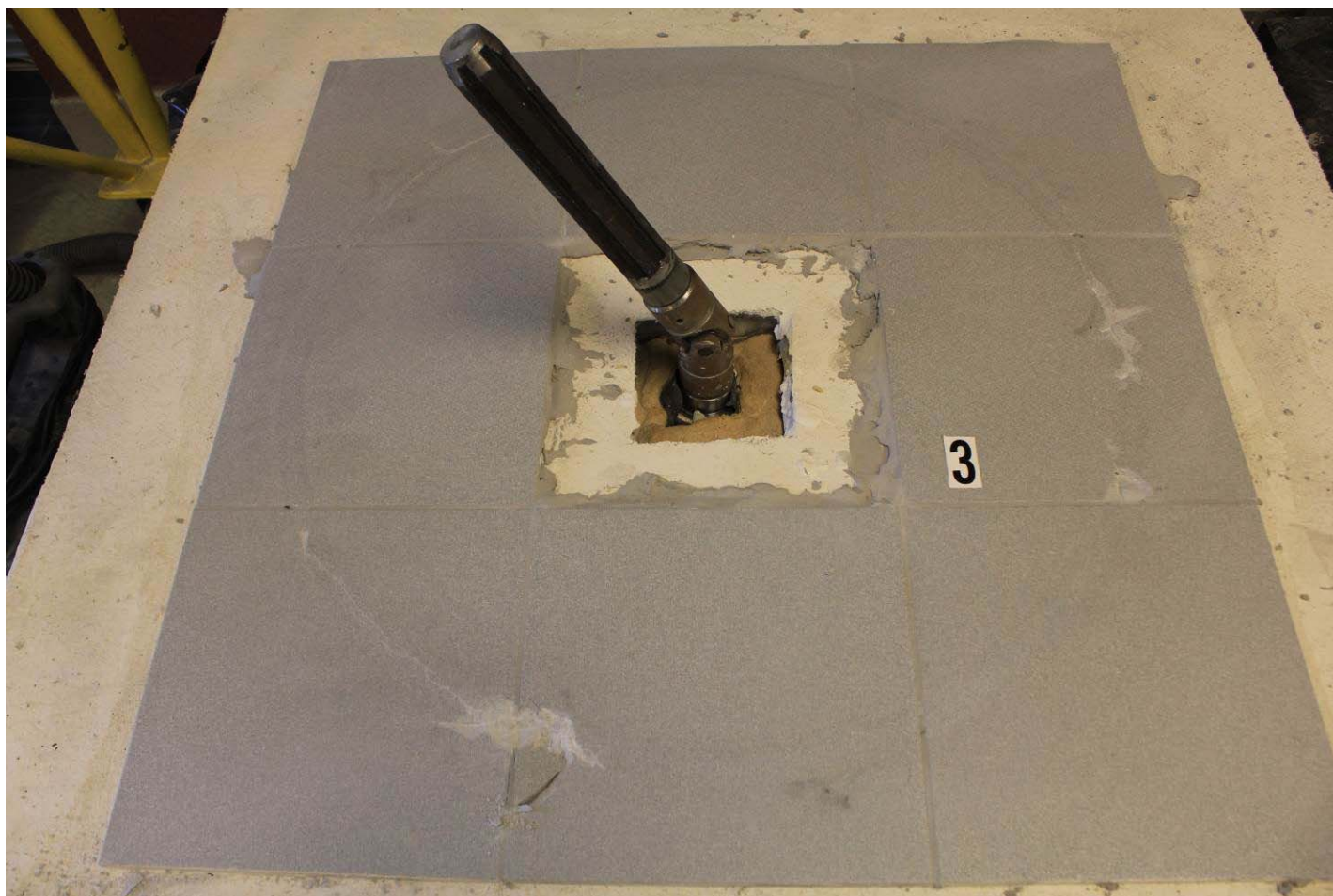


Image 1: Full assembly after testing

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Image 2: Broken tile

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Image 3: Broken tile



Image 4: Broken tile and spalled grout joint

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Katelyn Simpson
Laboratory Manager

8/26/19