



PRODUCT TESTING SERVICES

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

December 2, 2010

BJET Products, Inc.
Attn: Jeff Werner
23 Peebles Drive
Freelton, ON L0R 1K0
Canada

Dear Mr. Werner,

Tile Council of North America has tested the samples you submitted. Test report TCNA-412-10 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-412-10

PAGE: 1 OF 2

TEST REQUESTED BY: BJET Products, Inc.
Attn: Jeff Werner
23 Peebles Drive
Freelton, ON L0R 1K0
Canada

TEST SUBJECT MATERIAL: Identified by client as: Tyroc Nov 2010

TEST DATE: 12/1/10

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

Materials:

A thin-set installation over a concrete base was prepared using the following materials:

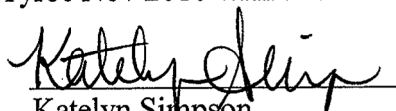
- 1) A 48" x 48" x 2" concrete base with a smooth finish
- 2) Tyroc Nov 2010
- 3) Custom Versabond fortified thin-set mortar
- 4) 12" x 12" Caribbean Slate ceramic tiles with 1/4" grout joints
- 5) Custom Premixed grout

Base and Underlayment:

The Tyroc Nov 2010 was laid out over the concrete in a brick pattern. The seams in the systems were glued per manufacturer's instructions. The system was then allowed to cure for 24 hours.

Tile and Grout:

Custom Versabond fortified thin-set mortar was mixed with water per manufacturer's instructions, and troweled over the Tyroc Nov 2010 with a 1/4" x 3/8" U- notched trowel.


Katelyn Simpson
Laboratory Manager

12/2/10
Date



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PAGE: 2 OF 2

Tile and Grout continued:

The thin-set mortar was first keyed-in with the flat side of the trowel and then combed with the notched side to form parallel ridges. The 12" x 12" Caribbean Slate ceramic tiles were set in the thin-set by pressing down and sliding the tile in a direction perpendicular to the combed ridges. A beat-in block and rubber mallet were used to reduce lippage between tiles. After the tiles were installed, the thin-set was allowed to cure for 24 hours before grouting.

Custom Premixed grout was mixed per the manufacturer's instructions, and forced into the ¼" 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 28 days.

At the end of the cure period, the installation was subjected to load cycling as defined in ASTM C-627.

TEST RESULTS:

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

CONCLUSION:

In accordance with the Performance-Level Requirement Guide and Selection Table of the 2010 *TCA Handbook for Ceramic Tile Installation*, page 15, the installation is classified "RESIDENTIAL" for "Kitchens, bathrooms, and foyers."

Katelyn Simpson
Laboratory Manager

12/2/10

Date