



**PRODUCT PERFORMANCE TESTING LABORATORY**

100 Clemson Research Blvd., Anderson, SC 29625

Phone 864.646.8453 Fax 864.646.2821

Email [testing@tcnatile.com](mailto:testing@tcnatile.com) Web [www.TCNAtile.com](http://www.TCNAtile.com)

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January 29, 2018

Interstyle Ceramic & Glass  
Attn: Mike Hauner  
3625 Brighton Avenue  
Burnaby, BC V5A 3H5  
Canada

Dear Mr. Hauner,

Tile Council of North America has tested the samples you submitted. Test report TCNA-0972-17 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

**TCNA TEST REPORT NUMBER:** TCNA-0972-17 **PAGE:** 1 OF 3

**TEST REQUESTED BY:** Interstyle Ceramic & Glass

**TEST METHOD:** ASTM C1026-13: “Standard Test Method for Measuring the Resistance of Ceramic and Glass Tile to Freeze-Thaw Cycling”

Informal Test Method Description: This test method describes the procedures and equipment required to test either glazed or unglazed ceramic or glass tiles for resistance to repeated cycles of freezing and thawing. Tile of any size or shape may be tested by this test method. A designated test load of tile specimens is saturated with water prior to being placed face-up in a metal water-filled container inside a freezer. The water level is adjusted such that the tile specimens are partially submerged. A thermocouple is inserted into the bottom of the metal container such that the water surrounding the thermocouple is the last location to freeze and thaw. Freezing is followed by a thawing cycle using water that flows over the test load. The number of freeze-thaw cycles is recorded and after 300 cycles, the test load is visually examined for damage and checked for total weight loss. This summary is provided for the reader’s convenience and is not a complete description of the method. See ASTM C1026 for all method details and information.

**TEST SUBJECT MATERIAL:** Identified by client as: “**Glazed Earthenglass X - 10300.1**”  
Approximate Size as Received: 2" x 4"

**TEST DATE:** 10/26/2017 – 1/23/2018

**TEST PROCEDURE NOTES:**

- Sample Prep: Five (5) specimens were prepared and conditioned according to ASTM C1026, section 7.1.1.
- The specimens were then subjected to three hundred (300) cycles of freeze-thaw consisting of freezing the tiles in water to 27°F and then thawing the tiles in water to 40°F.
- Each tile is evaluated for damage after freeze/thaw cycling. ASTM C1026 states that a damaged tile is defined as one which shows evidence of cracking, disintegration, spalling, or total weight loss greater than 0.5%.

**TEST RESULTS:**

Specimen #	Initial Dry Wt. (g)	Final Dry Wt. (g)	Observations After 300 Cycles	Total Wt. Loss (%)
1	70.64	70.63	No visible damage	0.02%
2	68.48	68.49	No visible damage	0%
3	69.05	69.04	No visible damage	0.02%
4	67.87	67.87	No visible damage	0%
5	67.03	67.03	No visible damage	0%

**COMMENTS:** None



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**IMAGE OF PRODUCT TESTED:**



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1/29/2018

Katelyn Simpson  
Laboratory Manager

