

ABIC TESTING LABORATORIES, INC.

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Evaluation of One Tile Style According To ASTM D4060

Client: Kährs Karelia Upofloor
940 Centre Circle, Suite 1000
Altamonte Springs, Florida 32714

Attention: Mr. Zach McKean

Product Identification:

- Expression 1545 Tile, Batch 5007, Dye Lot 26319

Test Method

- Abrasion Resistance: ASTM D4060 " Standard test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser"

Report No.: 5558-07

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Respectfully Submitted



Leonard Mackowiak
Vice President



ABIC Testing Laboratories, Inc.

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Introduction

ABIC Testing Laboratories, Inc was authorized to test the following submitted floor tile style:

- Expression 1545 Tile, Batch 5007, Dye Lot 26319

The tile style was tested according to the following test method:

- Abrasion Resistance: ASTM D4060 " Standard Test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser"

Methodology

The tile was tested to the following test method;

- Abrasion Resistance: ASTM D4060 " Standard test Method for Abrasion Resistance of Organic Coatings by the Taber Abraser"

Abrasion Resistance: ASTM D4060: Brief description of test procedure

- Samples are conditioned for a minimum of 24 hours at 73.4°F ± 1.8°F and 50% relative humidity on a flat surface
- Five samples measuring approximately 4 in x 4 in. were cut from the submitted tiles
- One sample at a time are placed on the Taber Abraser turn table
- Test conditions were as follows for each individual cut tile sample
 1. Test Wheels: CS-17
 2. Weight Load: 1000 grams per each machine arm
 3. Test Cycles: 1000
- Each sample is weight to the nearest 0.1 milligram before the test is started
- After 1000 cycles sample re weighted to the nearest 0.1 milligram
- Weight loss is calculated and expressed to the nearest 0.01 grams
- Repeat the same procedure for four additional samples
- Average the results and report this value for weight loss by this test method

Test Results

ASTM D4060

<u>Sample No</u>	<u>Initial Wt.(grams)</u>	<u>Final Wt. (grams)</u>	<u>Wt Change (grams)</u>	<u>Average (grams)*</u>
1	37.6123	37.5521	0.0602	0.05
2	37.4531	37.4201	0.0330	
3	37.6532	37.6122	0.0410	
4	37.5987	37.5512	0.0475	
5	37.6532	37.5990	0.0542	

*** Average Wt. Loss: 0.05 grams / 1000 test cycles using the ASTM D4060 test method**