

2016-03-15

DAF Products, Inc.  
Pat Merck  
420 Braen Ave  
Wyckoff, NJ 07481

E-mail: pmerck@dafproducts.com

Project: 4787336668

Subject: This Report Covers the Slip Resistance Testing of a Piece of Floor Graphic Material In Accordance With UL 410.

Dear Ms. Merck,

Per your request, Project 4787336668 was opened, in accordance with your testing requirements for the evaluation of a floor graphic material. The test was conducted at UL LLC 333 Pfingsten Rd, Northbrook, IL 60062.

UL LLC did not select the samples, determine whether the samples were representative of production samples or witness the production of the test samples, nor were we provided with information relative to the formulation or identification of component materials used in the test samples. The test results apply only to the actual samples tested.

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The test results appear on the following pages. This letter will serve to report that the requested test on the subject product has been completed.

Thank you for the opportunity to provide your company with these services. Please do not hesitate to contact us if you should have any questions or comments.

Warm Regards,

Nicholas Gorajski  
Senior Project Engineer  
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Reviewed by:

Bruce Bohren  
Engineering Manager

Number of pages in this package \_\_\_\_ [ including additional pages \_\_\_\_ ]  
 (Fill in when using printed copy as record)

| CLIENT INFORMATION |   |
|--------------------|---|
| Company Name       | DAF PRODUCTS, INC.                                  |
| Address            | 420 Braen Ave<br>Wyckoff, NJ 07481<br>United States |

| AUDIT INFORMATION:  |                  |        |                      |  |
|---|------------------|--------|----------------------|--|
| Description of Tests  | Per Standard No. | UL 410 | Edition/<br>Revision | Third Dated<br>October 25,<br>Date 2006                                |
| <input checked="" type="checkbox"/> Tests Conducted by <sup>1</sup> P.G. Day  |                  |        |                      |  |
| <input type="checkbox"/> UL Staff conducting<br>or witnessing testing<br>(WTDP, TMP, WMT only)<br><input type="checkbox"/> UL Staff supervising<br>UL Staff in training |                  |        |                      |  |
| <input type="checkbox"/> Authorized Signatory<br>(CTDP, TPTDP, TCP, PPP,<br>SMT)  |                  |        |                      |  |
|   |                  |        | Nicholas Gorajski    |  |
|   |                  |        | Printed Name         | Signature. Include date<br>for CTDP, TPTDP, TCP,<br>PPP, WMT, TMP, SMT |

| TESTS TO BE CONDUCTED: |                   |   |   |
|------------------------|-------------------|---|---|
| Test No.               | Done <sup>3</sup> | Test Name                                 | <input type="checkbox"/> Comments/Parameters<br><input type="checkbox"/> Tests Conducted by <sup>2</sup><br><input type="checkbox"/> Link to separate data files <sup>4</sup> |
| 1                      | 2016<br>/3/8      | SLIP RESISTANCE<br>CHARACTERISTICS: (FGM) |   |

Special Instructions -

Unless specified otherwise in the individual Methods, the tests shall be conducted under the following ambient conditions. Confirmation of these conditions shall be recorded at the time the test is conducted.

Ambient Temperature, C 23 ± 2      Relative Humidity, % 50 ± 4      Barometric Pressure, mBar ±

No general environmental conditions are specified in the Standard(s) or have been identified that could affect the test results or measurements.

RISK ANALYSIS RELATED TO TESTING PERFORMANCE:

The following types of risks have been identified. Take necessary precautions. This list is not all inclusive.

|   |   |
|---|---|
| <input type="checkbox"/> Electric shock         | <input type="checkbox"/> Radiation          |
| <input type="checkbox"/> Energy related hazards | <input type="checkbox"/> Chemical hazards   |
| <input type="checkbox"/> Fire                   | <input type="checkbox"/> Noise              |
| <input type="checkbox"/> Heat related hazards   | <input type="checkbox"/> Vibration          |
| <input type="checkbox"/> Mechanical             | <input type="checkbox"/> Other (Specify) __ |

|  |  |                               |                                |                              |                              |
|--|--|-------------------------------|--------------------------------|------------------------------|------------------------------|
| TEST LOCATION: (To be completed by Staff Conducting the Testing) |  |                               |                                |                              |                              |
| <input checked="" type="checkbox"/> UL or Affiliate              | <input type="checkbox"/> WTDP          | <input type="checkbox"/> CTDP | <input type="checkbox"/> TPTDP | <input type="checkbox"/> TCP | <input type="checkbox"/> PPP |
|  | <input type="checkbox"/> WMT           | <input type="checkbox"/> TMP  | <input type="checkbox"/> SMT   |                              |                              |
| Company Name:  | UL LLC                                 |                               |                                |                              |                              |
| Address:   | 333 Pfingsten Rd, Northbrook, IL 60062 |                               |                                |                              |                              |

TEST EQUIPMENT INFORMATION

UL test equipment information is recorded on Meter Use.

UL test equipment information is recorded on <<insert location and local laboratory equipment system identification.>>

| Inst. ID No. | Instrument Type | Test Number +, Test Title or Conditioning | Function /Range | Last Cal. Date | Next Cal. Date |
|--------------|-----------------|---|-----------------|----------------|----------------|
|              |                 |   |                 |                |                |
|              |                 |   |                 |                |                |
|              |                 |   |                 |                |                |
|              |                 |   |                 |                |                |
|              |                 |   |                 |                |                |
|              |                 |   |                 |                |                |
|              |                 |   |                 |                |                |
|              |                 |   |                 |                |                |
|              |                 |   |                 |                |                |

The following additional information is required when using client's or rented equipment, or when a UL ID Number for an instrument number is not used. The Inst. ID No. below corresponds to the Inst. ID No. above.

| Inst. ID No. | Make/Model/Serial Number/Asset No. |
|--------------|------------------------------------|
|              |                                    |
|              |                                    |
|              |                                    |
|              |                                    |

Tested by: \_\_\_\_\_

Date \_\_\_\_\_

## TEST SAMPLE IDENTIFICATION:

The table below is provided to establish correlation of sample numbers to specific product related information. Refer to this table when a test identifies a test sample by "Sample No." only.

| Sample Card No. | Date Received | <input type="checkbox"/> Test No. + | Sample No. | Manufacturer, Product Identification and Ratings |
|-----------------|---------------|-------------------------------------|------------|--|
| 173090          | 2016-02-23    | 1                                   | 1          | 9 in. by 9 in. square of material for test       |

Sampling Procedure -

This document contains data or information using color and if printed, should be printed in color to retain legibility and the information represented by the color.

Tested by: \_\_\_\_\_

Date \_\_\_\_\_

## SLIP RESISTANCE CHARACTERISTICS: (FGM)

FGM

Material: Floor Tile for Non-certification Testing

## METHOD

A sample of the material was applied to a vinyl composition tile, smoothed by hand and rolled with a rubber-coated roller weighing approximately 4.5 lbs (0.23 kg) to ensure good adhesion, with care being taken to remove all entrapped air. The sample was then cleaned with ethyl alcohol on cheesecloth and allowed to condition in a temperature-controlled room as described in 4.8.1.

The slip resistance characteristics of the material were measured in accordance with the established and standardized practice of UL LLC and in accordance with the latest edition of the Standard for Slip Resistance of Floor Surface Materials, UL 410.

## RESULTS

| Sample Orientation                 | Coefficient of Friction |
|------------------------------------|-------------------------|
| First Quadrant                     | .66                     |
| Adjacent Quadrant                  | .69                     |
| 180 degrees from First Quadrant    | .71                     |
| 180 degrees from Adjacent Quadrant | .69                     |
| Average                            | .69                     |

**[x]** The average static coefficient of friction of the four quadrants of the test sample **[was]** ~~**[was not]**~~ at least 0.50 and the individual static coefficients of friction **[was]** ~~**[was not]**~~ at least 0.45.

Note to Lab:

If the minimum and maximum run values vary by greater than 0.06, please re-conduct the test. If the second set minimum and maximum values vary greater than 0.06, please contact the engineer.

## Slip Resistance Test Conditions

|                     |      |    |                   |    |   |
|---------------------|------|----|-------------------|----|---|
| Ambient Temperature | 23.3 | °C | Relative Humidity | 50 | % |
|---------------------|------|----|-------------------|----|---|

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File N/A

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Tested by: \_\_\_\_\_

Date \_\_\_\_\_

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