



December 21, 2020

Ms. Gail Griffin
Griffom Innovations, Inc.
P.O. Box 258
Glide, OR 97443-0258

RE: CR# 6532
Report #: 6532-0620-942-R2
Full Series Lavatory Test Report

Dear Ms. Griffin:

Please find enclosed a copy of the test report on the specimen submitted for evaluation. Please check the comment section on the summary page for notes. This report resolves failed items in reports 6532-0620-942 and 6532-0620-942-R1.

If you have any questions, please do not hesitate to call.

Sincerely,

A handwritten signature in black ink, appearing to read "Tom Kenney", is written over a light-colored rectangular background.

Thomas M. Kenney, PE
VP Engineering
tkenney@HomeInnovation.com

Enclosures



Home Innovation
RESEARCH LABS™

TEST REPORT

FULL SERIES LAVATORY

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REPORT SUMMARY

Griform Innovations, Inc.
P.O. Box 258
Glide, OR 97443-0258

Inspection Month: June 2020
Report Date: 12/21/2020

Manufacturer CR #: 6532

Report Number: 6532-0620-942-R2

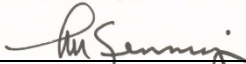
Inspection Date: 7/31/2020
Manufacture Date: 7/30/2020
Unit Received: 8/13/2020
Unit Description: Baby Bath

Inspected By: John Winebarger
Unit Model Style: BB1910
Unit Serial Number: N/A

Comments:

Shipping damage, if any, did not influence test results. The specimen was inspected for tampering prior to arrival. These tests were performed under the direct and continuous supervision of laboratory personnel. The specimen, as selected, **PASSED** those sections of the CSA B45.5-17 / IAPMO Z124-2017 Standard detailed in this report. This report resolves failed items in reports 6532-0620-942 and 6532-0620-942-R1.

NOTE: ID and calibration of test devices used for the evaluation are available upon request.



Thomas M. Kenney, PE
VP Engineering

TESTS PERFORMED IN ACCORDANCE WITH CSA B45.5 / IAPMO Z124

4. General Requirements

4.1.2 Surface finish PASS

Fixture surfaces shall be free from defects to the extent specified in this Standard when inspected in accordance with Clause 5.4.

4.2.1 Openings and drainage PASS

Openings and drainage shall comply with 4.2.1.1, 4.2.1.2, 4.2.1.3.

4.2.1.1 Fixtures shall a) have a waste fitting opening (outlet), the centre of which shall be located at the lowest point of the fixture; and b) drain to the waste outlet.

4.2.1.2 Except when proprietary (i.e., non-standard) waste fittings are provided by the manufacturer, the dimensions shall match Figure 1.

4.2.1.3 Factory-supplied waste fittings shall comply with ASME A112.18.2/CSA B125.2.

4.3 Lavatories and sinks PASS

Lavatories and sinks shall comply with 4.3.1.1-4.3.1.3.

4.3.1.1 When provided, openings and mounting surfaces for lavatory and sink supply fittings shall be as shown in Figure 2, 3, 4, 5, or 6, as applicable, except when proprietary (i.e., non-standard) supply fittings are provided by the manufacturer.

4.3.1.2 Factory-supplied supply fittings shall comply with ASME A112.18.1/CSA B125.1.

4.3.1.3 Mounting surfaces for supply fittings that rely on an air gap for backflow protection shall be not more than 13 mm (0.5 in) below the flood level rim.

5. Test Requirements

5.3 Warpage tolerance test PASS

The unit is evaluated in accordance with 5.3.1 and must meet the performance criteria in Clause 5.3.2.

5.4 Surface examination test PASS

The specimen shall be free from cracks, chipped areas, and blisters. Other defects shall not exceed the maximums specified in Table 1 of the referenced standard.

5.5 Subsurface test PASS

There shall be no visible voids larger than 1.6 mm (0.063 in) in diameter below the original finish surface, and the maximum allowable number of voids smaller than 1.6 mm (0.063 in) for the two test areas shall be eight.

5.6 Waste fitting connection test PASS

There shall be no visible cracks in the bottom surface of the specimen.

5.7 Point impact load test PASS

There shall be no cracks or chips in the surface of the specimen when examined in accordance with Items (b) to (d) of Clause 5.4.1.

5.10 Colorfastness test PASS

The test sample shall show no significant change in color or surface texture after 200 hours of exposure to a xenon arc-type light-exposure apparatus in accordance with 5.10.2 and 5.10.3. Measured color difference shall be not more than 2 delta E units of the test sample before and after exposure.

5.11 Stain resistance test PASS

Ratings for removal of the stains listed in the referenced standard are as follows:

| REAGENT | COVERED | UN-COVERED |
|-------------------------------------|------------------------------|------------|
| 1. Black crayon | 2 | 2 |
| 2. Black liquid shoe polish | 2 | 2 |
| 3. Blue washable ink | 4 | 4 |
| 4. Lipstick | 2 | 2 |
| 5. Hair Dye | 4 | 4 |
| 6. Iodine Solution | 2 | 2 |
| 7. Gentian Violet Solution | 3 | 3 |
| TOTALS | 19 | 19 |
| Thickness of material lost = inches | Stain resistance rating = 38 | |

The maximum stain resistance rating shall be the sum of the individual stain ratings for each of the covered and uncovered stain areas and shall not exceed 50, Except for sinks, where it shall not exceed 64. The maximum allowable thickness of material removed to eliminate a stain shall be 0.127 mm (0.005 in).

5.12 Cleanability and wear tests **PASS**

5.12.1 Wear test **PASS**

Each specimen shall withstand the number of scrub cycles specified in Table 2 without wear-through of the surface material in the middle third of the specimen surface (see Figure 16) when tested in accordance with Clause 5.12.1.

5.12.2 Cleanability test **PASS**

In addition, when tested in accordance with Clause 5.12.2, each specimen shall not lose more than 5% white-light reflectance after being cleaned with liquid cleanser and not more than 2% white-light reflectance after an additional cleaning with abrasive cleaner.

5.14 Cigarette test **PASS**

There shall be no ignition or progressive glow of the specimen surface during or after contact with the lighted cigarettes. Any resulting damage shall not impair the serviceability of the fixture and shall be easily repairable using abrasive and polishing compounds to approximate the original finish.

5.15 Chemical resistance test **PASS**

The surface finish shall be unaffected by the reagents except for superficial changes removable by sanding with 400-grit wet or dry sandpaper and water. Damage resulting from the test shall not impair the serviceability of the fixture and shall be easily repairable using abrasive and polishing compounds to approximate the original finish.

5.16 Thermal shock resistance test **PASS**

Examine the specimen in accordance with Clause 5.4.1(d). There shall be no cracking, crazing, blistering or spalling, or delamination.

6. Markings

6.1 General **PASS**

Plastic plumbing fixtures shall be marked with the manufacturer's name or registered trademark. Markings shall be permanent, legible, and visible after installation. The marking shall comply with 6.1.1-6.1.4.

6.4 Packaging **PASS**

Packaging for plumbing fixtures shall be marked as detailed in 6.4.