



July 23, 2018

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

CR#: 6532

Dear Ms. Griffin:

Please find enclosed a copy of the test report on the unit submitted for evaluation. Please check the comments section at the end of the report for notes or requested follow up.

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

Sincerely,

A handwritten signature in blue ink, appearing to read "Deanna Seale", is written over a light blue circular stamp.

Deanna (Williams) Seale, PE
Assistant Lab Director
dseale@HomeInnovation.com

Enclosure

CC: K. Jerald, Accounting



Home Innovation
RESEARCH LABS™

SHOWER UNIT CERTIFICATION TEST RESULTS

Manufactured By:	Griffom Innovations, Inc. P.O. Box 258 Glide, OR 97443-0258	Inspection Month:	June 2018
		Test Type:	Short
		Date of Report:	7/18/2018
Manufacturer CR #:	6532	Report Number:	65320618042
Date of Inspection:	6/12/2018	Inspected By:	Nathan B.
Date of Manufacture:	6/5/2018	Unit Model Style:	SPC3636R
Date Unit Received:	6/26/2018	Unit Serial Number:	Not Supplied

Tests performed in accordance with CSA B45.5/IAPMO Z124-Plastic Bathtub and Shower Units

4.0 GENERAL REQUIREMENTS

4.0 Materials

Reinforcement – Closed Cell HDPU
Plastic– Not Supplied
Fillers – Closed Cell HDPU
Pigments- Not Supplied
Surface Finish – Smooth
Unit Characteristics – Solid Surface Shower Pan

4.1.1 Dimensional Tolerances

Dimensions 8" and greater 3%, less than 8" 5%
Manufacturer's Specified Tolerances:
Manufacturer's Specified Unit Dimensions: Whole Unit: 36" x 36" x 5 7/8"
Measured Unit Dimensions: Whole Unit: 36" x 36" x 5 7/8"

4.1.2	Surface Finish Fixture surfaces shall comply with clause 5.4.	Pass
4.1.3	Coated Parts	N/A
4.1.4	Different Materials	N/A
4.1.5	Accessible Design	N/A
4.2.1	Openings & Drainage Openings and drainage shall comply with 4.2.1.1, 4.2.1.2, 4.2.1.3.	Pass
4.2.2	Overflows	N/A
4.4	Bathtubs & Shower Bases Bathtubs and shower bases shall comply with 4.4.1-4.4.6	Pass

PLASTIC SHOWER UNIT CERTIFICATION TEST RESULTS

Manufactured by: Grifforn Innovations, Inc.
Glide, OR

Date of Inspection: 6/12/2018
Report #:65320618042

- 5.2 Load & Rotation Tests for Grab Bars **N/A**
- 5.3 Warpage Tolerance **Pass**
The unit is evaluated in accordance with 5.3.1 and must meet the performance criteria in 5.3.2.
- 5.4 Surface Test **Pass**
Unit shall be free of cracks, chipped areas and blisters. The number of molding and other defects or blemishes shall not exceed those given in Table 1 of the referenced standard.
- 5.5 Subsurface Test **Pass**
No visual blemishes or voids larger than 1/16 of an inch in diameter shall be observed below the surface finish. Voids smaller than 1/16 of an inch in diameter observed below the surface finish shall not exceed the number detailed in the standard.
- 5.6 Drain Fitting Connection Test **Pass**
During and after the application of either 25 or 50 pounds by using a 24 inch lever arm in three radial positions, no cracks shall be observed around the drain opening.
- 5.7 Point Impact Load Test **Pass**
After the impact of a 1 1/2 inch, half-pound steel ball from a height of either 20, 24, or 36 inches as specified in the standard, no cracks or chips shall be observed in any of the surface areas tested.
- 5.8.1 Load Test Bathtub & Shower Seats **N/A**
- 5.8.2 Bathtub & Shower Bottom and Threshold Load Test **Pass**

Position Number	Deflection (inches) (<= .150")	Residual Deflection (inches) (<= .008")
1	0.080	0.000
2	Pass	
3	Pass	

<u>Threshold Loads:</u>
A= N/A
B= N/A
- 5.8.3 Bathtub & Shower Area Impact Test **N/A**
- 5.8.4 Bathtub & Shower Wall Surround Load Test **N/A**
- 5.9 Radii Load Test for Bathtubs & Showers **N/A**
- 5.16 Thermal Shock Resistance **Pass**
No cracking, crazing, blistering, spalling or delamination shall be observed at the conclusion of required number of cycles as specified in the standard.
- 6.1 General **Pass**
The unit shall be permanently and legibly marked with the manufacturer's name or trademark and it shall be visible after installation. The marking shall comply with all applicable provisions in 6.1.
- 6.4 Packaging **Pass**
Packaging for plumbing fixtures shall be marked as detailed in 6.4

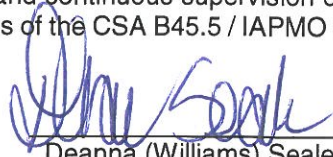
PLASTIC SHOWER UNIT CERTIFICATION TEST RESULTS

Manufactured by: Grifforn Innovations, Inc.
Glide, OR

Date of Inspection: 6/12/2018
Report #:65320618042

Comments:

The unit was not damaged during shipping and it did not appear that the unit was tampered with prior to arrival. These tests were performed under the direct and continuous supervision of laboratory personnel. The plastic shower, as selected, **passed** all the sections of the CSA B45.5 / IAPMO Z124 standard detailed in this report.



Deanna (Williams) Seale, PE
Assistant Lab Director

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