



**PLASTIC LAVATORY CERTIFICATION TEST RESULTS
FULL SERIES REPORT**

Manufactured By: Tower Industries LLC
P.O. Box 647
Massillon, OH 44648

Manufacturer CR Number: 6538 **Report Number:** 65380311342

Date of Inspection: 3/10/2011 **Date of Report:** 6/16/2011
Date Unit Received: 3/21/2011 **Inspected By:** Buckley
Date Unit Tested: 3/23/2011 **Unit Model Style:** #98
Date of Manufacture: 2/10/2011 **Unit Serial Number:** B1011 DW

Tests performed in accordance with ANSI Z124.3-2005-Plastic Lavatory Units

2.0 GENERAL REQUIREMENTS

- | | | |
|-----|--|-------------|
| 2.1 | Materials | Pass |
| | Reinforcement - Resin/Filler
Plastic-Resin
Fillers - Alumina Trihydrate
Substrate Pigments - Titanium Dioxide
Surface Finish - Solid Surface
Unit Characteristics - Solid Surface Oval White Lavatory | |
| 2.2 | Dimensional Tolerances: 20" x 15 3/4" Bowl: 17 1/4" x 13 3/4"
The unit's finished trim measurements shall be within tolerance of manufacturer's stated rough-in dimensions. | Pass |
| 2.3 | Unit for Testing
Unit shall be randomly selected from manufacturer's finished goods inventory. | Pass |
| 2.4 | Installation Instructions
Written installation instructions shall be affixed to the unit in a visible location. | Pass |
| 2.5 | Care and Maintenance Instructions
Written care and maintenance instructions shall be affixed to the unit in a visible location. | Pass |
| 2.6 | Identification
Manufacturer's name and/or trademark shall be permanently and legibly marked on the unit in a visible location. | Pass |

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3.0 Workmanship and Finish

- 3.3 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.
- 3.4 Subsurface Test **N/A**

4.0 Structural Integrity

- 4.2 Drain Fitting Connection Test **Pass**
During and after the application of 25 pounds by using a 24 inch lever arm in three radial positions, no cracks shall be observed around the drain opening. During the load application in the three positions, no leaks shall be observed.
- 4.3 Point Impact Load Test **Pass**
After the impact of a 1½ inch, half-pound steel ball from a height of 20 inches, no cracks or chips shall be observed in any of the surface areas tested.
- 4.4 Loads on Lavatory Top **N/A**

5.0 Physical Characteristics

- 5.1 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 ASTM D2565-85.
- 5.2 Stain Resistance Test **Pass**
Ratings for removal of the seven stains listed in the referenced standard are as follows:

REAGENT	COVERED	UNCOVERED
1. Black crayon	3	3
2. Black liquid shoe polish	1	1
3. Blue washable ink	2	3
4. Gentian Violet solution	2	2
5. Lipstick	3	2
6. Hair dye	1	1
7. Iodine solution	1	1
TOTALS	13	13
Thickness of material lost = 0 inches	Stain resistance rating = 26	

The stain resistance rating shall not exceed 50. The maximum allowable thickness of material removal to eliminate the stain shall be 0.005 inches.

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- 5.3 **Wear & Cleanability Test**
- A. **Wear** **Pass**
The surface finish of the three test samples shall not wear through to the supporting subsurfaces after 10,000 scrub cycles with an abrasive slurry solution.
- B. **Cleanability** **Pass**
The average absolute loss of white-light reflectance after application and removal of standard dirt with liquid detergent shall not exceed 5.0 percent. The average absolute loss of white-light reflectance after additional cleaning with an abrasive slurry solution shall not exceed 2.0 percent.
- Loss after liquid detergent application = **0.6%**
Loss after abrasive slurry application = **0%**
- 5.4 **Cigarette Test** **Pass**
After contact with three lighted cigarettes, the test sample shall show no ignition, progressive glow, or unrepairable damage. Damage to the surface shall be easily repairable by using abrasive and/or polishing compounds.
- 5.5 **Chemical Resistance Test** **Pass**
The surface finish shall be unaffected by the 12 reagents used. Any superficial surface change shall be easily repairable by using abrasive and/or polishing compounds.
- 5.6 **Thermal Shock Test** **Pass**
No cracking, crazing, blistering or spalling shall be observed at the conclusion of testing. The unit shall pass the ANSI requirement of 500 test cycles.

6.0 Materials Testing

- 6.1 **Water Resistance Test (Types 1, 2, and 3)** **N/A**

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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 lavatory unit, as selected, **passed** all the requirements of the ANSI Z124.3-2005 standard.


CHARLES P. ARNOLD
Program Manager

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