

CLIENT: Onyx Collection Inc.
202 Anderson
Belvue, KS 66407

Test Report No: TJ2009-3 Rev. 3	Date: July 8, 2016
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REFERENCE: Testing was originally reported under SGS Test Report Number 654:009918 issued on 1/28/2008. The testing was performed under the same International Accreditation Service ISO 17025 accreditation number TL-282.

REVISION: Revision to QAI Laboratories test report number TJ2009-Rev. 2 issued on Jun 6, 2014 to include a compliance statement to ANSI Z124.2.

SAMPLE ID: Two shower bases identified by client as, "STD Cappuchino 616136 and STD Adobe 616135", were received in good condition on 1/14/08. This report also applies to sizes listed in Table 1.

SAMPLING DETAIL: Test samples were submitted to the laboratory directly by the client. No special sampling conditions or sample preparation were observed by QAI.

DATE OF RECEIPT: Samples were received at QAI on 1/14/08

TESTING PERIOD: 1/15/08 – 1/28/08

AUTHORIZATION: Signed Work Order by John McCarthy

TEST PROCEDURE: The units were evaluated in accordance with ANSI Z124.1.2-2005 and ANSI Z124.2-1995. No revisions to this report will be allowed after 90 days of the report date.

TEST RESULTS: The units, and those listed in Table 1, do comply with all the requirements of ANSI Z124.1.2-2005 and ANSI Z124.2-1995.

PREPARED BY

**SIGNED FOR AND ON BEHALF OF
QAI LABORATORIES, INC.**


Joe Cavett
Plumbing Project Manager


J. Brian McDonald
Operations Manager

Table 1

32" X 32"	48" X 30"	60" X 32" Left offset drain
36" X 32"	48" X 32"	60" X 32" Right offset drain
36" X 36"	48" X 33-1/2"	60" X 34"
36" X 36" with curb on two sides	48" X 36"	60" X 36"
36" X 42"	48" X 42"	60" X 42"
36" X 48"	48" X 48"	36" Neo Angle
42" X 32"	54" X 36"	38" Neo Angle
42" X 34"	60" X 30"	42" Neo Angle
42" X 36"	60" X 30" Left offset drain	48" Neo Angle
42" X 42"	60" X 30" Right offset drain	54" Neo Angle
42" X 48"	60" X 32"	60" Neo Angle

Test Procedure and Results

I. ANSI Z124.1.2-2005

2.1 Material:

Pass

Material: Solid Surface / Cultured Marble
 Type: II
 Color: Tan

2.1.3 Supporting Structure

NA

2.2 Dimensional Tolerances:

Reference

Model: STD Cappuchino 616136

<u>Dimension</u>	<u>Measured</u>	<u>Manufacturer's Stated Dimensions</u>
Length, in.:	<u>59-15/16"</u>	<u>60"</u>
Width, in.:	<u>41-5/8"</u>	<u>42"</u>
Height, in.:	<u>4"</u>	<u>Not Stated</u>

Model: STD Adobe 616135

<u>Dimension</u>	<u>Measured</u>	<u>Manufacturer's Stated Dimensions</u>
Length, in.:	<u>31-5/8"</u>	<u>32"</u>
Width, in.:	<u>31-1/2"</u>	<u>32"</u>
Height, in.:	<u>4"</u>	<u>Not Stated</u>

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2.3	<u>Test Unit:</u>	Reference
	Unit Style: <u>Shower Pan Unit</u> Model & Serial No.: <u>STD Cappuchino 616136</u> Date of Mfg: -	
	Unit Style: <u>Shower Pan Unit</u> Model & Serial No.: <u>STD Adobe 616135</u> Date of Mfg: -	
	The units were installed in a test stand in accordance with the manufacturer's published instructions.	
2.4.	<u>Installation Instructions:</u>	Pass
	A copy of the manufacturer's installation instructions were supplied with the unit.	
2.5.	<u>Care and Maintenance Instructions:</u>	Pass
	A copy of the manufacturer's care and maintenance instructions were supplied with the unit.	
2.6.	<u>Identification:</u>	Pass
	Manufacturer's name or trademark: <u>Onyx</u>	
	2.6.1 <u>Field Flange Kits:</u>	NA
2.7	<u>Grab Bars:</u>	NA
2.8	<u>Raised Flanges and Tiling Beads:</u>	Pass
	Flange Height, in.: <u>1"</u> (1", Min – Shower Base)	
	Flange is integral with shower base	

3.0 WORKMANSHIP AND FINISH

3.3 Surface Tests:

Pass

	<u>3" dia.</u>	<u>Below Tub Rim</u>	<u>Wall Surround</u>
Major Cracks	<u>0 (0)</u>	<u>0 (0)</u>	<u>0 (0)</u>
Minor Cracks	<u>0 (0)</u>	<u>0 (0)</u>	<u>0 (0)</u>
Blisters	<u>0 (0)</u>	<u>0 (0)</u>	<u>0 (0)</u>
Surface Porosity	<u>0 (0)</u>	<u>0 (0)</u>	<u>0 (0)</u>
Molding Irregularities	<u>0 (1)</u>	<u>0 (8)</u>	<u>0 (16)</u>
Pits & Pinholes	<u>0 (8)</u>	<u>0 (16)</u>	<u>0 (48)</u>
Pinholes & Small Specks	<u>0 (4)</u>	<u>0 (8)</u>	<u>0 (24)</u>
Medium Specks	<u>0 (2)</u>	<u>0 (4)</u>	<u>0 (12)</u>
Large Specks	<u>0 (0)</u>	<u>0 (0)</u>	<u>0 (0)</u>

3.4 Subsurface Tests:

Pass

	<u>Rim</u>	<u>Bottom</u>
Voids Larger than 1/16in.	<u>0 (0)</u>	<u>0 (0)</u>
Voids smaller than 1/16.	<u>0 (8)</u>	<u>0 (8)</u>

4.0 STRUCTURAL INTEGRITY

4.2 Drain Fitting Connection:

Pass

<u>50 lb. Load Position</u>	<u>Cracks (0)</u>
1	<u>0</u>
2	<u>0</u>
3	<u>0</u>

4.3 Point Impact Loads:

Pass

<u>Load Height, in.</u>	<u>Impact Point</u>	<u>Cracks (0)</u>
36	Bottom	<u>0</u>
36	Bottom	<u>0</u>
36	Bottom	<u>0</u>
36	Rim	<u>0</u>
36	Rim	<u>0</u>
36	Rim	<u>0</u>
24	Bottom Radius	<u>0</u>
24	Bottom Radius	<u>0</u>
24	Bottom Radius	<u>0</u>

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4.4 Load on Seats **NA**

4.5 Loads on Rim and Bottom: **Pass**

Model: STD Cappuchino 616136

<u>300 lb. Load Location</u>	<u>Loaded Deflection, in. (0.150 max.)</u>	<u>Residual Deflection, in. (0.008 max.)</u>	<u>Cracks (0)</u>
Bottom center	<u>0.0595</u>	<u>0.003</u>	<u>0</u>

Model: STD Adobe 616135

<u>300 lb. Load Location</u>	<u>Loaded Deflection, in. (0.150 max.)</u>	<u>Residual Deflection, in. (0.008 max.)</u>	<u>Cracks (0)</u>
Bottom center	<u>0.0470</u>	<u>0.001</u>	<u>0</u>

4.6 Area Impact Loads On Surrounds: **NA**

4.7 Loads on Wall Surrounds: **NA**

4.8 Radii Load Test: **Pass**

<u>Failure Location</u>	<u>Cracks (0)</u>	<u>Chips (0)</u>	<u>Voids (0)</u>
None	<u>0</u>	<u>0</u>	<u>0</u>

4.9 Loads on Unsupported Areas: **NA**

5.0 Physical Characteristics

5.1 Color Fastness: **Pass**

Specimen:	<u>1</u>	<u>2</u>	<u>3</u>
Color Change (0):	<u>0</u>	<u>0</u>	<u>0</u>

5.2 Stain Resistance: Pass

Reagent	Exposure Time	Covered Specimen Rating	Uncovered Specimen Rating
Black Crayon	16 hrs.	<u>1</u>	<u>1</u>
Black Liquid Shoe Polish	16 hrs.	<u>1</u>	<u>1</u>
Blue Washable Ink	16 hrs.	<u>1</u>	<u>1</u>
Gentian Violet Solution	16 hrs.	<u>1</u>	<u>1</u>
Lipstick	16 hrs.	<u>1</u>	<u>1</u>
Hair Dye	16 hrs.	<u>1</u>	<u>1</u>
Iodine, 1%	16 hrs.	<u>1</u>	<u>1</u>

Total Stain Resistance Rating (50 max.): 14

5.3 Cleanability & Wear: Pass

Specimen	% Reflectance Loss (5% max.)	% Reflectance Loss After Additional Cleaning (2% max.)	Thickness inch
1	<u>1.45</u>	<u>n/a</u>	<u>0.5500</u>
2	<u>1.65</u>	<u>n/a</u>	<u>0.6310</u>
3	<u>1.90</u>	<u>n/a</u>	<u>0.6340</u>

5.4 Cigarette Test: Pass

Specimen:	<u>1</u>	<u>2</u>	<u>3</u>
After Glow Time (0, max.)	0	0	0

5.5 Chemical Resistance: Pass

(all "Yes")

Reagent	Service-able	Repair-able	Reagent	Service-able	Repair-able
Naphtha	<u>yes</u>	<u>yes</u>	Citric Acid, 10%	<u>yes</u>	<u>yes</u>
Ethyl Alcohol	<u>yes</u>	<u>yes</u>	Urea, 6% (Urine)	<u>yes</u>	<u>yes</u>
Amyl Acetate	<u>yes</u>	<u>yes</u>	Hydrogen Peroxide, 3%	<u>yes</u>	<u>yes</u>
Ammonia, 10%	<u>yes</u>	<u>yes</u>	Phenol, 5% (Lysol)	<u>yes</u>	<u>yes</u>
Toluene	<u>yes</u>	<u>yes</u>	Lye, 1%-2% (Drano)	<u>yes</u>	<u>yes</u>
Ethyl Acetate	<u>yes</u>	<u>yes</u>	Sodium Hypochlorite	<u>yes</u>	<u>yes</u>
Acetone	<u>yes</u>	<u>yes</u>	(Chlorox)	<u>yes</u>	<u>yes</u>

5.6 Ignition Test Pass

First Test Specimen	1 st Burn Time, Sec.	2 nd Burn Time, Sec.
1	1	0
2	1	0
3	0	1
4	0	0
5	1	0

Requirement: Less than 30sec.

5.7 Thermal Shock Resistance: Pass
(250 cycles @50°F and 150°F @ 1gpm)

Results: No Cracks, Crazing, Blistering, or Spalling

Requirement: (No cracks, crazing, blistering, or spalling)

6.1 Water Resistance: Pass
(Each change: 4, maximum; Total Rating: 9, maximum)

Specimen	Color Change (4)	Blistering (4)	Surface Profile Change (4)	Cracks (4)	Loss of Gloss (4)	Total Rating (9)
1	0.0	0.0	0.0	0.0	0.0	0.0
2	0.0	0.0	0.0	0.0	0.0	0.0
3	0.0	0.0	0.0	0.0	0.0	0.0

6.2 Laboratory test for non-integral flange seal: NA

6.3 Resistance to fungi and bacteria growth: NA

6.4 Puncture resistance test: NA

*** END OF TEST REPORT ***