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**SECTION 066116  
SOLID SURFACE FABRICATIONS**

**SHOWER & TUB WALLS  
SHOWER PANS**

Wiltcher Industries, Inc.  
648 Aldenham Lane  
Ormond Beach, FL 32174  
[www.wiltcherindustries.com](http://www.wiltcherindustries.com)

**PART 1 – GENERAL**

**1.1 SUMMARY**

- A. Section includes:  
Solid Surface material from Wiltcher Industries, as indicated and specified
- B. Work Specified in this Section:  
Shower and tub wall panels  
One-piece shower pans

**1.2 RELATED SECTIONS**

- A. Related work specified in other sections:  
Division 15 “Plumbing”  
Division 9 “Wall Cladding”  
Division 6 “Rough Carpentry”  
Division 6 “Finish Carpentry”  
Division 7 “Sealants”

**1.3 DEFINITION**

- A. Solid surface is a homogeneous thermoset polymer compound, comprised of acrylic and polyester components filled with aluminum trihydrate. Materials are non-porous and homogenous, with uniform color and pattern throughout the entire thickness. Materials should be 100% repairable.

#### **1.4 REFERENCES**

- A. Applicable Standards referenced herein:
  - ASTM: American Society for Testing and Materials
  - ANSI: American National Standards Institute
  - NSF: National Sanitation Foundation
  - NEMA: National Electrical Manufacturers Association

#### **1.5 SUBMITTALS**

- A. Shop Drawings: Manufacturer/installer will provide detailed shop drawings indicating all details for installation.
- B. Maintenance Data: Provide care and maintenance instructions.

#### **1.5 QUALITY ASSURANCE**

- A. Source Limitations  
Where solid surface is indicated on drawings, the material shall be Solid Surface, manufactured by Wiltcher Industries, 5484 NW 80<sup>th</sup> Avenue Road, Ocala, FL 34482.
- B. Installer Qualifications  
Solid Surface from Wiltcher Industries shall be installed by an industry certified fabricator/installer.

#### **1.6 DELIVERY, STORAGE AND HANDLING**

Transport and deliver all items in appropriate packaging to prevent damage. Handle materials to prevent damage to surfaces.

#### **1.7 WARRANTY**

Furnish the manufacturer's limited warranty covering defects in material and workmanship.



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## **PART 2 - PRODUCTS**

### **2.1 MANUFACTURER**

Wiltcher Industries, Inc.  
648 Aldenham Lane  
Ormond Beach, FL 32174  
(888) 963- 8990  
[www.wiltcherindustries.com](http://www.wiltcherindustries.com)

### **2.2 MATERIALS**

#### **A. Solid Polymer Fabrications**

1. Solid surface material should be a homogeneous thermoset polymer compound, comprised of acrylic and polyester components filled with aluminum trihydrate. Materials are non-porous and homogenous, with uniform color and pattern throughout the entire thickness. Materials should be 100% repairable and contain a minimum of 12% Rapidly Renewable materials.
2. Material meets performance requirements listed below in H.

#### **B. Shower and Tub Walls**

1. Wall panels shall be 1/4" thick full width and height of wall sections.
2. Color to be Wiltcher Industries color # \_\_\_\_\_
3. Substitutions – Not Allowed.

#### **C. Shower Pans**

1. Shower pans are to be made from solid cast polyester / acrylic blend resin and have adjustable drain locations, coved side walls, at least a 1" panel platform with a 5 degree slope and a 1" minimum water dam. It should have a non-skid floor with water channels directing water to the drain at a 2 degree slope (1/4" per foot)
2. Pans shall carry a materials and workmanship warranty against cracks, breakage, and leaks.
3. Shower pans shall meet the minimum ANSI Z124.2 certification.
4. Shower pans shall have a non-slip co-efficient rating of .20 or greater as registered by the ASTM F462 slip resistance test method.
5. Color to be Wiltcher Industries color #64 Sea Salt.
6. Substitutions – Not Allowed.

#### **D. Finishes**

Final finish is supplied by the fabricator and may range from matte to high gloss, depending on the customer's specification. Surfaces with gloss and semi-gloss finishes



require more maintenance than matte or satin finishes. Darker colors also may require more attention.

**E. Basic Limitations**

Designed for interior use only.

**F. Accessories:**

Accessories, in matching materials, shall include inside coved and outside corner moldings and ceiling and wall molding designed to protect and conceal the waterproofing silicone sealant. The waterproof nature of the shower wall panels and pans shall not rely on surface caulking. Matching solid surface soap dishes shall be provided at each shower. Provide shop drawing for approval.

**G. Performance Characteristics:**

**Comprehensive Analysis Data - Solid Surface from Wiltcher Industries**

Test Type	Test Method	Test Results
Hardness	ASTM D-2583-95	58- 60
Work to Break		8.56
Flex. Strength	ASTM D- 790	9,870
Mod.		1,330,000
Gloss	NEMA LD 3-3 1513.2	5- 20
Wear and Clean	ANSI Z124.3	Passes
Abrasion Resistance	CS 221-66	No Loss of Pattern
Cigarette Resistance	NEMA LD3-3.07	No Effect
Boiled Water Resistance	NEMA LD3- 3.05/3.5	See Below*
Slip Resistance	ASTM F-462	0.24
High Temperature Resistance	NEMA LD3- 3.06/3.5	No Effect
Chemical Resistance	ANSI Z124.3	No Effect
Color Stability	ASTM D-792	Slight Effect at 200 Hours
Conductive Heat	NEMA LD3- 3.08/ 3.8N	Slight Effect
Unnotched Impact	ASTM D- 256- 96a	1.3
Notch Impact	ASTM D- 256- 96a	0.33 Ft- Lb/ In
Stain	ANSI Z124.3	Passes- 43
Sp. Gr.	ASTM D- 729- 91	1.71
Water Absorption	ASTM D- 570- 95	0.022
Flammability	ASTM E- 84	Class 1
Oxygen Index	ASTM D- 2863	0.33
% Cure by DSC	Analytical	97%
GC Head Space .	Analytical	1030 PPM

\* Boiling water and high temperature resistance tests may have an effect on the surface, however the surface can be renewed to 'No Effect'. Typical properties refer to an average value.



#### Fire Test Data

Solid Surface materials shall be classified by Underwriters Laboratories under UL File Number R14436 for surface burning characteristics. Test data for Solid Surface panels shall be generated according to ASTM E 84: Standard Test Method for Surface Burning Characteristics of Building Materials. This procedure is catalogued by Underwriters Laboratories, Inc. as UL 723. For panels with a thickness of one-half inch (13 mm), the Flame Spread Index is less than or equal to 25.

Materials shall comply with the following Codes and Certifications

- ASTM G-22 bacterial resistance
- ASTM G-21 fungal resistance

### **2.3 FABRICATION**

- A. Solid Surface from Wiltcher Industries shall be fabricated by an industry certified fabricator/installer.
- B. Fabricate to field measurements and in accordance with manufacturer's recommendations. Field or shop seaming as required. Seamed panels shall be waterproof and seams inconspicuous.

## **PART 3 - EXECUTION**

### **3.1 EXAMINATION**

- A. Examine substrates to receive solid surfacing. Correct any conditions that are substandard or will interfere with installation. Verify that all supports are suitable for installation per drawings.

### **3.2 INSTALLATION**

- A. Install products plumb and level in locations indicated, in accordance with manufacturer's recommended installation procedures.
- B. Coordinate plumbing installation with Division 15.

### **3.3 CLEANING**

- A. After installation is complete, remove all excess adhesive, dirt and debris from the installation.

### **3.4 PROTECTION**

- A. Protect surfaces from damage until project is completed. Repair or replace damaged components.
- B. Provide maintenance and care instructions.