

**SECTION 06650
SOLID SURFACE FABRICATIONS****TUB SURROUNDS & SHOWER WALLS**

GSP Surfaces
9810 E 42nd Street, Suite 220
Tulsa, OK 74146
918-895-6300

www.mysterasurfaces.com

PART 1 – GENERAL**1.1 SUMMARY**

- A. Section includes:
 Mytera Solid Surface material, as indicated and specified.
- B. Work Specified in this Section:
 Tub and Shower Panels

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 100% acrylic components filled with aluminum trihydrate and coloring agents. Materials are non-porous, 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

The solid surface tub and shower wall panels and trim should be specified as Mystera Solid Surface by GSP Surfaces, 9810 E 42nd Street, Suite 220, Tulsa, OK 74146, phone number 918-895-6300.

B. Installer Qualifications

Installers should be experienced in techniques applicable to wet wall installation for both wall panels and trim components.

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 ten-year commercial warranty covering defects in material and workmanship.

PART 2 - PRODUCTS

2.1 MANUFACTURER

Manufacturer:

GSP Surfaces

9810 E 42nd Street, Suite 220

Tulsa, OK 74146

918-895-6300

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2.2 MATERIALS

A. Solid Polymer Fabrications

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

B. Shower and Tub Walls

Wall panels shall be 1/4" thick full width and height of wall sections.

C. Color: _____

D. Finishes

Final finish will be a matte finish, unless the customer specifies a higher level of finish. 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 are available in matching materials, including inside 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 shall not rely on surface caulking. Matching solid surface soap dishes and shampoo caddies shall also be available. Provide shop drawing for approval.

G. Performance Characteristics:

Comprehensive Analysis Data – Mystera Solid Surface

Property	Test	Typical Results
Flexural Modulus	ASTM D790-10	1.9 x 10 ⁶ psi
Flexural Strength		8,800 psi
Tensile Modulus	ASTM D638-10	1.7 x 10 ⁶ psi
Tensile Strength		5,800 psi
Tensile Elongation		0.4% min.
Hardness – Barcol Impressor	ASTM D2583-07	60

Property	Test	Typical Results
Impact Strength – Izod notched	ASTM D256-10 Method A	0.28 ft-lb/in.
Impact Resistance (1/4”) – ½ lb. ball	NEMA LD-3- 2005	90” (No failure at height)
Impact Resistance (1/2”) – ½ lb. ball		144” (No failure at height)
Water Absorption (1/4” or 6mm)	ASTM D570	0.15%
Water Absorption (1/2” or 12mm)		0.07%
Wear and Cleanability	ANSI Z124.3- 2005	Pass
Stain Resistance		Pass
Boiling Water Resistance	NEMA LD- 3:2005	No effect
High Temperature Resistance		No effect
Flammability: All colors	ASTM E 84	Class I (Class A)
Flame Spread Index		<25
Smoke Developed Index		<25

Property	Test	Typical Results
Density	ASTM D792-13	1.7g/cm ³
Approximate weight per square foot ¼” (6mm)	-	2.2 lbs.
Approximate weight per square foot ½” (12mm)	-	4.4 lbs.

Materials shall comply with the following Codes And Certifications

- Approved by NSF International Standard 51 “Splash Zone” areas.
- ASTM G-22 bacterial resistance
- ASTM G-21 fungal resistance

2.3 FABRICATION

- A. Mystera Solid Surface shall be fabricated and installed by an authorized Mystera fabricator / installer.
- B. Fabricate and fit to field measurements and in accordance with manufacturer's recommendations. Field or shop seaming as required. Seamed panels shall be waterproof and seams invisible.

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.