

**SECTION 066100
CAST POLYMER FABRICATIONS**

PART 1 GENERAL**1.01 SECTION INCLUDES**

- A. Quartz surfacing fabrications.

1.02 REFERENCE STANDARDS

- A. ASTM E84 - Standard Test Method for Surface Burning Characteristics of Building Materials; 2026a.

1.03 SUBMITTALS

- A. See Section 013000 - Administrative Requirements, for submittal procedures.
- B. Product Data: Manufacturer's data for fabricated units.
- C. Shop Drawings: For each type of cast polymer, indicate:
 - 1. Plans and Elevations: Include dimensions and unit serial numbers; indicate location of fabricated units.
- D. Samples: For each Counter top type, two samples, 4 inches (102 mm) in length, indicating specified color.
- E. Operation and Maintenance Data: Maintenance instructions, including recommended cleaning procedures and materials.
- F. Executed warranty.

1.04 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in manufacturing products specified in this section, with minimum three years of documented experience.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. See Section 017419 - Construction Waste Management and Disposal for packaging waste requirements.

1.06 WARRANTY

- A. See Section 017800 - Closeout Submittals for additional warranty requirements.

PART 2 PRODUCTS**2.01 MANUFACTURERS**

- A. Quartz Surfacing Fabrications:
 - 1. Basis of Design: Corian Quartz by Dupont : www.corianquartz.com.

2.02 REGULATORY REQUIREMENTS

- A. Surface Burning Requirements:
 - 1. Interior Use: Flame spread index of 75 or less and smoke-development index of 450 or less; Class B interior finish classification when tested in accordance with ASTM E84.

2.03 QUARTZ SURFACING FABRICATIONS

- A. Applications: Counter tops.
 - 1. Type: Slabs.
 - a. Thickness: 15/32 inch (1.2 cm).
 - 2. Type: Thin format.
 - a. Thickness: 1/4 inch (6 mm).
 - b. Substrate: 3/4" plywood.
 - 3. Finish: As indicated on drawings.
 - 4. Color: As indicated on drawings.
 - 5. Exposed Edge Profile: As indicated on drawings.

2.04 FABRICATION

- A. Fabricate units with embedded anchors, stiffening ribs, and sufficient strength for handling and placement stresses.
- B. Fabricate cutouts where indicated.
- C. Radius corners and edges with 1/4 inch (6.4 mm) minimum radius; polish exposed edges.
- D. Provide consistent finish over exposed surfaces matching approved samples.
- E. Fill seams and mold lines; grind smooth and finish to match adjacent cast polymer surfaces.
- F. Built-Up Edges: Laminate components where design requirements indicate built-up edges; follow manufacturer's recommended procedures for laminating.
- G. Fabrication Tolerances:
 - 1. Maximum Variation from Specified Thicknesses: 1/16 inch (1.59 mm).
 - 2. Maximum Variation from Specified Dimensions: 1/8 inch (3.18 mm).
 - 3. Maximum Variation from Dimensioned Cutout Locations: 1/4 inch (6.35 mm).

2.05 ACCESSORIES

- A. General: Accessories recommended by cast polymer manufacturer for complete installation.
- B. Adhesives: Type recommended by cast polymer manufacturer for application; not containing formaldehyde or volatile organic compounds.
- C. Joint Sealants: Type recommended by cast polymer manufacturer for application.

PART 3 EXECUTION**3.01 EXAMINATION**

- A. Verify field measurements are as indicated on shop drawings.
- B. Verify substrates are prepared to receive cast polymer fabrications.
- C. If substrate preparation is responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.
- D. Verify mechanical, electrical, and other building components affecting work of this section are placed and ready to receive work of this section.

3.02 PREPARATION

- A. Prepare substrates in accordance with manufacturer's written instructions.

3.03 INSTALLATION

- A. Install cast polymer units in accordance with manufacturer's written instructions.
- B. Install Counter top panels over continuous substrate.
- C. Rigidly anchor to substrate to prevent misalignment.

3.04 TOLERANCES

- A. Maximum Variation from True Position: 1/4 inch (6.4 mm).
- B. Maximum Variation from Plumb: 1/4 inch in 10 feet (2 mm in 1 m).
- C. Maximum Variation from Level: 1/4 inch in 10 feet (2 mm in 1 m).

3.05 CLEANING

- A. Clean exposed surfaces of installed units in accordance with manufacturer's instructions.

3.06 PROTECTION

- A. Protect installed cast polymer units from subsequent construction operations.

END OF SECTION