
SECTION 04 44 00

STONE COUNTERTOPS

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes: Provide stone countertops with accessories as required for complete finished installation.
- B. Related Sections:
 - 1. Section 06 40 00: Wood casework.
 - 2. Section 12 33 00: Manufactured residential casework.

1.2 SUBMITTALS

- A. Product Data: Furnish literature for manufactured items.
- B. Shop Drawings: Furnish cutting and setting drawings showing sizes, dimensions, sections and profiles of units.
 - 1. Indicate arrangement and provisions for jointing, anchoring, fastening and supports and details for reception of other work.
 - 2. Indicate location of each unit on setting drawings with number designation corresponding to number marked on each unit.
- C. Samples: Submit samples indicating color, grade and finish of each type of stone and grout.

1.3 QUALITY ASSURANCE

- A. Sustainability Requirements: Comply with CALGreen requirements including those relative to finish material pollution control for adhesives, sealants, and caulks.
- B. Fabricator Qualification: Minimum five years successful experience fabricating work similar to quality specified in quantity shown.

1.4 DELIVERY, STORAGE, AND HANDLING

- A. Handle material to prevent chipping, breakage, soiling or other damage.
- B. Protect edges of materials with wood or other rigid materials.
- C. Lift with wide-belt type slings wherever possible. If required, use wood rollers and provide cushion at end of wood slides.
- D. Place and stack skids and units to distribute weight evenly and to prevent breakage and to prevent cracking.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. System Description: Provide stone countertops including accessories.
 - 1. Stone Source: Obtain each stone from single quarry source with consistent color range and texture throughout work; do not change sources or kinds of materials during course of work.
 - 2. Stone Selection Quality Control: Observe stone during fabrication and ensure consistency of appearance; do not use pieces with defects and blemishes beyond normal characteristics anticipated for stone.
 - a. Defects and Blemishes: Contrasting spots, foreign elements, irregular color variations, and irregularities in typical characteristics shall be considered defects and blemishes.
- B. Stone: As indicated and as required to match Architect's samples for type, color, variety, grain, and other characteristics relating to aesthetic effects.
- C. Underlayment: APA Underlayment plywood or medium density fiberboard (MDF); provide underlayment with Type I waterproof adhesives; underlayment to be formaldehyde-free and free of toxic substances.
- D. Pins: ASTM A276 Type 304 stainless steel pins, minimum 1/4" diameter.
- E. Epoxy: ANSI A118.3 or A118.8 epoxy.
- F. Stone Sealers and General Accessories: Provide clear penetrating type sealers and general accessories as recommended by stone supplier for type of stone and application indicated.
 - 1. Sealers shall not change appearance of stone under any lighting condition.

2.2 FABRICATION

- A. Stone Countertops: One-piece slabs finished top and bottom and on exposed edges, dimensions as shown.
 - 1. Include neoprene spacer strips.
 - 2. Metal Brackets: Furnished under Section 05 50 00.
- B. Fabricate as shown and as detailed on final shop drawings.
 - 1. Provide holes and sinkages cut or drilled for anchors, fasteners and supports as shown and as necessary to secure work in place.
 - 2. Cut and back-check as required for proper fit and clearance.

- C. Cut accurately to shape and dimensions shown on final shop drawings. Comply with fabrication tolerances stone association for specified finishes.
 - 1. Dress joints (bed and vertical) straight and at 90-degree angle to face, unless otherwise shown or specified.
 - 2. Joint width: Cut stone to provide uniform hairline joints.
- D. Provide openings and similar spaces and features as required for contiguous work.
- E. Seal stone surfaces after fabrication.

PART 3 - EXECUTION**3.1 EXAMINATION**

- A. Examine sub-base and supports for stone.
- B. Start of work indicates acceptance of conditions.

3.2 PREPARATION

- A. Clean stone before setting by thoroughly scrubbing with fiber brushes followed by thorough sponging with clear water.
- B. Use only mild cleaning compounds that contain no caustic or harsh fillers or abrasives.

3.3 INSTALLATION

- A. Do not use material with chips, cracks, voids, discolorations or other defects that might be visible or cause staining in finished work.
- B. Execute work with skilled mechanics and employ skilled fitters at site to do necessary field cutting as stone is set.
- C. Provide openings and other spaces as shown or required for contiguous work. Close up openings in stone after other work is in place. Use materials and set to match surrounding work.
- D. Set stone in accordance with Drawings and final setting drawings.
 - 1. Provide anchors, supports, fasteners and other attachments shown, or necessary to secure in place.
 - 2. Shim and adjust stone as required for proper setting.
 - 3. Completely fill holes, slots, and other sinkages for anchors, dowels, fasteners and supports with epoxy.
- E. Site Tolerances: Specified tolerances are non-cumulative.
 - 1. Variation from Level: Maximum 1/8".
 - 2. Variation in Line: Maximum 1/8".

3.4 CLEANING

- A. Use clean water and stiff bristle fiber brushes; do not use wire brushes, acid type cleaning agents, cleaning compounds with caustic or harsh fillers, or materials or methods which could damage stone.

3.5 REPAIR

- A. Repair of damaged stone is not acceptable; replace defective work.

END OF SECTION