

SECTION 042020
CONCRETE MASONRY UNIT (S-121)

1. GENERAL

Scope: Furnish all labor, materials, transportation, services, tools and equipment to properly execute work for Concrete Masonry Unit.

2. MATERIALS

Concrete masonry units shall conform to ASTM C90 and C129 and shall include hollows, solids, closers, jamb units, headers and special shapes and sizes required. Linear shrinkage as determined by ASTM C426 shall not exceed .03%.

Mortar shall be Type S consisting of 1 part Portland cement, 1 part Type S hydrated lime and 6 parts sand. Portland cement shall be Type I, II, or III as per ASTM C150. Hydrated lime shall be Type S as per ASTM C207. Sand shall be as per ASTM C144. Water shall be drinkable. Mortar shall be natural.

Joint reinforcement shall be made from cold drawn steel wire as per ASTM A82, and shall consist of two deformed side rods welded at 16" intervals to a continuous diagonal cross rod forming a truss design and shall be galvanized after fabrication.

Provide bolts and rods fabricated from not less than 16 ga. sheet metal or 3/8" diameter rod stock, unless otherwise indicated.

3. EXECUTION

Mixing Mortar: All materials shall be mixed a minimum of 5 minutes in a mechanical batch mixer. All mortar shall be used within 2 1/2 hours of initial mixing.

Erection: Bond pattern shall be running bond. Joints shall be 3/8". Mortar joints which are exposed and have become "thumbprint" hard shall be tooled with a round jointer. Masonry units shall be laid plumb and true to lines.

Joint reinforcement in all concrete masonry unit walls shall be in every other horizontal course and shall be continuous. Side rods shall be lap 6" at splices.

Cleaning:

- a. Holes in exposed masonry shall be pointed and defective joints cut out and repaired.
- b. Exposed masonry shall be protected against staining by wall coverings, and excess mortar shall be wiped off as work progresses. All exposed masonry shall be thoroughly cleaned.

4. Measurement & Payment

Concrete Masonry Unit shall be measured and paid at the unit price bid.