ProBlock Specifications

Part 1 – GENERAL

| SUBMITTAL

1. Submit a full size of product selected.
2. Submit product literature, certifications, and material test reports by a qualified independent testing facility.

| QUALITY ASSURANCE

1. Single Source Responsibility: Obtain masonry units of uniform texture from one manufacturer.

| DELIVERY, STORAGE, AND HANDLING

1. The contractor shall be responsible for keeping all units undamaged and covered during construction.
2. Units need to be handled carefully to avoid breakage or chipping.

| PROJECT CONDITIONS

1. Cover walls with a waterproof sheeting at the end of each day’s work.

Part 2 – PRODUCTS

| PERFORMANCE REQUIREMENTS

1. Provide unit masonry, mortar, and grout that develops compressive strength (f’m) at 28 days as indicated on drawings.

| CONCRETE MASONRY UNITS

1. Unit Design
   1. Modular units sized as indicated or scheduled. Provide special shapes necessary for bond beams, control and expansion joints, lintels, and special conditions.
   2. Provide units as required for indicated construction including sill units and solid cap units.
   3. Provide units with exposed faces which comply with ASTM C90 finish and appearance requirements.
2. Load Bearing Units: ASTM C90
   1. All units (with the exception of corners, halves, bond beams and other special units) shall be ProBlock having a 15% maximum web area percentage.
   2. Units shall not exceed 93 lb/ft3 density as determined by ASTM C140. All units shall be produced using approved rotary kiln expanded shale, clay or slate aggregates.

*Note to Specifier – Web Area Percentage is defined as the sum of all cross web areas (web height x web width) divided by CMU face shell plus mortar joint. For example, an 8” ProBlock has two ¾” cross webs, which equals 8.9% cross web area. {(2 x 0.75 x 7.6250 / 8 x 16)}} = 0.0894}*

1. Non-load Bearing Units: ASTM C129
   1. All units (with the exception of corners, halves, bond beams and other special units) shall be ProBlock having a 15% maximum web area percentage.
   2. Units shall not exceed 93 lb/ft3 density as determined by ASTM C140. All units shall be produced using approved rotary kiln expanded shale, clay or slate aggregates.
2. Integrally Colored CMU
   1. All split face and smooth face Architectural colored units (with the exception of corners, halves, bond beams and other special units) shall be ProBlock having a 15% maximum web area percentage.
   2. All units to conform to the current addition of ASTM C90
   3. Net area compressive strength: 2500 psi
   4. Units shall be manufactured to include integral water repellant that complies with ASTM E 514 where specified by project specifications.
   5. Color as specified or as shown on drawings.
   6. Quality Assurance
      1. Single Source Responsibility: Obtain exposed masonry units of uniform texture and color as represented by the mock-up panel from one manufacturer. All units shall be from consecutive runs to minimize color variations.
      2. Mock-Up Panel: Prior to installing unit masonry, construct sample wall panels containing the range of colors and textures expected from the units to verify selections made under sample submittals and to demonstrate aesthetic effects of materials and execution.
   7. Inspection
      1. The installed architectural units shall be viewed from a distance of 20 feet in diffused light and should comply with the finish and appearance section of ASTM C90.
   8. Cleaning
      1. In progress cleaning: Using a dry brush to remove access or dripped mortar from the face of the material.
      2. Final Clean Down: Use a Detergent Masonry Cleaner that can be safely used on Decorative Concrete Masonry. We recommend EaCo Chem’s NMD 80 or equivalent. Follow the manufacturer's recommendations for proper use which includes the EaCo Chem Process for best results.
      3. Do not use products which have not specifically been approved for use on Decorative Concrete Masonry.
   9. Manufacturers:
      1. Johnson Concrete Company - Lexington, NC
      2. Johnson Concrete Company - Concord, NC
      3. Johnson Concrete Company - Willow Spring, NC
3. Fire-Resistance Ratings:
   1. Where indicated provide materials with fire-resistance ratings determined per ASTM E119 by a testing and inspecting agency, by equivalent concrete masonry thickness, or by other means, as acceptable to Authorities having jurisdiction.