

Part 1 – General

SUBMITTAL

In accordance with Section 01350 submittal procedures, submit color samples for selection from manufacturer's series. Submit product literature, certifications, test reports and full size sample(s) of each color specified. Provide current integral water repellent CMU producer qualification.

QUALITY ASSURANCE

Certifications: Burnished Face Units are hollow or solid, load bearing concrete masonry units with one or more faces or ends ground using a minimum three-stage vertical spindle/ polishing machine to expose carefully selected aggregates complying with ASTM C33. Units are manufactured by means of moisture controlled curing for 24 hours minimum, and allowed to further cure a minimum of 20 days before beginning burnishing process. Concrete blocks for burnishing shall conform to ASTM C90 for Normal weight. Burnished surfaces are produced unsealed. A factory applied sacrificial sealer may be applied upon request. All units contain an integral water repellent and CMU admixture at the time of manufacture. Units shall conform to ASTM C744 with respect to abrasion, crazing resistance, and color change.

Fire Resistance: Define hourly ratings required as 1, 2, 3, or 4 hours.

Field Constructed Mock-Ups: Construct a sample panel no less than 4' x 6' containing each color and size units to be used in the project illustrating color, clear sealer finish, texture, and mortar joints to establish a standard of quality for completed work. Retain mock-up during construction as a quality standard. Completely remove when work is accepted.

DELIVERY, STORAGE AND HANDLING

Burnished Face units shall be delivered on covered wood pallets with protective layers between courses to protect ground faces. Store in protected area and covered to ensure units remain dry and clean. Do not allow units to sit in standing water. Handle masonry units in manner to avoid chipping, breakage, marring ground faces, and contact with contaminating materials.

Part 2 – Products

PRODUCT NAME

Burnished Face Masonry Units

MANUFACTURER

Nettleton Concrete, Inc. (800) 382-2462
P.O. Box 2157 · Jonesboro, Arkansas 72402

RELATED MATERIALS

Colored matching or contrasting mortar is available from the manufacturer. For all exterior mortar, use matching manufacturer approved water-repellent mortar additive, following manufacturer's instructions. For final sealing, TK Bright Cure and Seal, or approved equal, is to be applied as directed by manufacturer's recommendations after CMU have been installed, cleaned, washed, and dried.

SIZES AND SHAPES

Nominal 4", 6", 8", 10" and 12" standard block thicknesses are available as well as all standard block shapes. High-strength units for special structural requirements and oversized units are also available.

WATER REPELLENCY

Burnished Face Units are manufactured with Water-Pel S integral water repellent, or approved equal to assist in controlling efflorescence. Use of DRY-BLOCK mortar admixture according to manufacturer's recommendations is required for a water repellent wall.

MASONRY CLEANER

Use masonry cleaners such as 222 Cast Stone & Burnished Masonry Clenzer, manufactured by Diedrich Technologies, Inc. for all finishes. Do not apply cleaner with a pressure sprayer above 50psi.

Part 3 – Execution

INSTALLATION

Install burnished face CMU as part of unit masonry work specified in Section 04850 - Unit Masonry Assemblies. Always lay blocks from more than one pallet at a time during installation. Complete masonry construction using procedures and workmanship consistent with quality masonry practices.

Cutting: Field cut burnished face CMU with motor-driven masonry saws using an abrasive or diamond blade to provide straight true edges and avoid damage to ground face. Do not install chipped or broken units.

Mortar Bedding and Jointing: All mortar joints should be tuckpointed for the appropriate appearance. For external applications, tuckpoint joints to control water penetration. Raked joints are not recommended for any application. During grouting, placements of foamed-in place insulation, and application of sealants, ensure that materials are not smeared onto burnished faces of CMU. Remove as recommended by manufacturer.

Protection: During erection, cover top of walls with waterproof sheeting at end of each day. Cover partially completed walls when work is not in progress. Extend cover 24 inches minimum down both sides and hold securely in place. Protect face of walls, sills, and other projections from roof run-off, splashed water, mud, grout, and mortar. Spread sand or straw at base of walls to minimize dirt and clay splashing onto ground CMU faces. Without damaging completed work, it is recommended to provide protective boards at exposed external corners which may be damaged by construction activities.

INSPECTION

Faces of units exposed in finished work shall be of uniform color and texture and free of chips, cracks, or other imperfections detracting from appearance of the finished wall when viewed from a distance of fifteen (15) feet at right angles to the wall under normal lighting conditions.

FLASHING OF MASONRY WORK

Install flashing at locations shown in the plans and in strict accordance with the details and the best masonry flashing practices.

WEEP HOLES AND VENTS

Install weep holes and vents at proper intervals at courses above grade, above flashing, and at any water stops over windows, doors and beams.

CLEANING

Exercise care that wet mortar is not splashed onto burnished face during installation. Excess or splashed mortar shall be cleaned from face with dry burlap wipe. Remove after mortar becomes hard enough not to smear but prior to mortar sets.

FINAL CLEANDOWN

Clean completed wall surfaces using masonry cleaners such as 222 Cast Stone & Burnished Masonry Clenzer, manufactured by Diedrich Technologies, Inc. Dilute cleaning solution as recommended by manufacturer. Strictly follow manufacturers cleaning instructions. Do not use acid or abrasives on finished surfaces. Do not powerwash. High pressure powerwashing may interfere with performance of the integral water repellent causing efflorescence.

MANDATORY FIELD APPLICATION

For finished walls that have been cleaned, washed, and dried, apply a jobsite application of TK Bright Cure and Seal or equivalent as directed by manufacturer's recommendations.

MAINTENANCE

Burnished Face Masonry Units, properly installed, cleaned, and sealed, need virtually no maintenance other than routine cleaning with standard commercial grade cleaning agents. Contact manufacturer for specific cleaning recommendations.