

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: Megastone units are solid non-load bearing concrete masonry units of multiple sizes with faces that are either Smooth Face, Burnished Face with one or more faces or ends ground using a minimum three-stage vertical spindle/ polishing machine to expose carefully selected aggregates, Split Face utilizing blades that exert pressure from top and bottom of product to split it, Chiseled Face that are chiseled on all four face edges of a split unit. Units are manufactured by means of moisture controlled curing for 24 hours minimum. Burnished units are allowed to further cure for a minimum of 20 days before burnishing. Concrete blocks for finishing shall conform to ASTM C90 for Normal Weight. All units contain an integral water repellent CMU admixture at the time of manufacture. Burnished units are produced unsealed, but a manufacturer applied sacrificial sealer may be applied at customer request. Units shall conform to ASTM C744 with respect to abrasion, crazing resistance, and color change.

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. Mock-Up shall also illustrate Megastone and mortar combination, coursing, bond, unit size ratio, and pattern. Retain mock-up during construction as a quality standard. Completely remove when work is accepted.

DELIVERY, STORAGE AND HANDLING

Megastone units shall be delivered on covered wood pallets in such a way as to protect 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, breaking, contact with contaminating materials, and marring of faces.

Part 2 – Products

PRODUCT NAME

Megastone Custom 4" Concrete Masonry Veneer

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. Burnished Units require a final sealing using Bright Kure & Seal manufactured by TK Products, or approved equal.

FINISHES

Smooth Face, Burnished Face, Split Face, and Chiseled Face finishes are available

SIZES AND SHAPES

Megastone units consist of nominal 4" standard block thicknesses: 12x16, 16x16, 4x24, 8x24, 12x24, 16x24, and 16x32. Custom sill units of varying sizes are also available.

WATER REPELLENCY

Megastone Units are manufactured with RainBloc® integral water repellent, or approved equal, to assist in controlling efflorescence. Use of RainBloc® mortar admixture, or approved equal, according to manufacturer's recommendations, is required for a water repellent wall.

MASONRY CLEANER

Use masonry cleaners such as Specialty Masonry Cleaner, or 222 Cast Stone & Burnished Masonry Cleaner for Burnished Face units, both manufactured by Diedrich Technologies, Inc., or approved equals. Do not apply cleaner with a pressure sprayer above 50psi.

Part 3 – Execution

INSTALLATION

Install Megastone units 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 Megastone units with motor-driven masonry saws using an abrasive or diamond blade to provide straight true edges and avoid damage to face. Field split and chisel corners with suitable tools to insure uniform texture and consistency of 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.

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 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 quality 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 Megastone faces during installation. Excess or splashed mortar shall be cleaned from face with dry burlap wipe or masonry brush. Remove after mortar becomes hard enough not to smear but prior to mortar setting.

FINAL CLEANDOWN

Clean completed wall surfaces using masonry cleaners such as Specialty Masonry Cleaner, or 222 Cast Stone & Burnished Masonry Cleaner for Burnished Faces units, both 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 Burnished Face finishes that have been cleaned, washed, and dried, apply a jobsite application of Bright Kure & Seal manufactured by TK Products or equivalent as directed by manufacturer's recommendations.

MAINTENANCE

Megastone units, properly installed, cleaned, and sealed, needs virtually no maintenance other than routine cleaning with standard commercial grade cleaning agents. Contact manufacturer for specific cleaning recommendations.