

Product Specifications: Waterford Stone™ Masonry Unit

PART I - GENERAL

SUBMITTAL

Submit product literature, unit shop drawings, certification, test reports, full size sample(s) of each color selected.

QUALITY ASSURANCE

All high density concrete masonry units shall be Waterford Stone™ masonry units manufactured by Georgia Masonry Supply. All units shall conform to ASTM C90 - current revision and shall have a hand chiseled finish with, some units having false joint configurations, and jumper units used to break up repeating pattern, and a range of colors as specified.

Field Constructed Mock-up: Construct a sample panel, no less than 4' x 4', of units of the color to be used in the project. The cleaning agent and method should also be determined and applied at the time the sample panel is constructed.

DELIVERY, STORAGE and HANDLING

Concrete Stone Masonry Veneer: Waterford Stone™ Masonry Units as manufactured or distributed by Georgia Masonry Supply contact: Kevin Torok 770-963-5888. Solid units with physical dimensions and characteristics complying with ASTM C1634-15, and densities between 135 - 160 lbs/cf.

Color: Minimum of three variegated color blending as selected from manufacturers standard selections.

Size: 4 inches in width nominal with face dimensions selected from a minimum of 15 face sizes to match ashlar pattern indicated on drawings or established in the approved mock-up.

Anchors: Provide anchors to suit design requirements for material and installation requirements.

Mortar Materials: Provide mortar to suit design requirements for material and installation requirements.

PROJECT CONDITIONS and HANDLING

Cover walls each day after installation to keep open walls protected and dry.

PART II- PRODUCTS

PRODUCT NAME

Waterford Stone™ Masonry Units

MANUFACTURER

An Oldcastle Company, contact National Accounts at (877) 506-2745

PART III - EXECUTION

LAYING MASONRY WALLS

Coursings: Install masonry construction anchored solidly to backing, properly aligned, plumb, and true in required layout, making straight, level courses, unless otherwise indicated. Place varying sizes of stones to provide a random Ashlar pattern as approved. Maintain mortar joint thickness of 3/8 inch (10 mm) to 3/4 inch (19 mm) either horizontally or vertically.

Tool Joints: Alternate laying of the stone to the same side so that the joints will minimize the appearance of repeating patterns.

- a. Flush
- b. Concave
- c. Recessed (recommended to match false joint in the stone.)

Placing and Bonding: Lay masonry in full bed of mortar with full head joints, properly jointed with other work. Buttering corners of joints, deep or excessive furrowing of mortar joints is not permitted. Back-bevel bed joints to remove excess mortar droppings in cavity as work progresses. Fully bond intersections and external corners. Isolate masonry partitions from vertical structural framing members with a control joint as indicated. Provide for expansion and control joints as indicated on the drawings. Do not adjust masonry units after placing. Where resetting of masonry is required, remove clean units and reset in new mortar. Leave joints under shelf angles and elsewhere as indicated or required open to receive sealant.

Anchors: Provide anchors to suit design requirements indicated or required. Masonry backing: wire anchors or adjustable anchors. Minimum spacing 18 inches (450 mm) horizontally and 32 inches (800 mm) vertically.

Steel stud backing: Adjustable anchors attached with corrosion-resistant screws having a minimum nominal shank diameter of 0.19 inch (4.8 mm). Minimum spacing 18 inches (450 mm) horizontally and 32 inches (800 mm) vertically.

Wood stud backing: Corrugated sheet metal anchors, wire anchors or adjustable anchors. Attach to backing with a corrosion-resistant 8d common nail, or a fastener with equivalent or greater pullout strength. Minimum spacing 18 inches (450 mm) horizontally and 32 inches (800 mm) vertically. Increase quantity of wall ties around perimeter of openings, at wall terminations and corners, and along parapet walls, placed within 8 inches (203 mm) of openings and edges of masonry. Build-in items furnished by other trades, and leave accurate openings necessary for subsequent installation of other work to maintain required

strength and appearance of masonry construction.

1. Fill solidly with mortar around conduit and sleeves passing through masonry work.
2. Build-in loose steel angle lintels, providing bearing indicated in full mortar bed.

Prevent grout, mortar, and soil from staining face of masonry. Remove grout and mortar from these surfaces immediately.

Protect base of masonry walls from rain splashed mud and mortar splatters. Install weep holes in veneer masonry at maximum 24 inches (610 mm) on center horizontally above through-wall flashing, above shelf angles, lintels, bottom of walls, and elsewhere as indicated on drawings. Do not permit mortar to drop or accumulate into cavity air space or to plug weeps.

INSTALLATION

Lighting: Provide adequate lighting for masonry work by placing all lighting a reasonable distance from the wall for even illumination. Do not use trough lighting. **Cutting:** Make all unit cuts, including those for bonding, holes, boxes, etc., with motor driven masonry saws, using either an abrasive or diamond blade. Cut neatly for best appearance.

Placing and Bonding: Lay masonry in full bed of mortar with full head joints, properly jointed with other work. Buttering corners of joints, deep or excessive furrowing of mortar joints is not permitted. Back-bevel bed joints to remove excess mortar droppings in cavity as work progresses. Fully bond intersections and external corners. Isolate masonry partitions from vertical structural framing members with a control joint as indicated. Provide for expansion and control joints as indicated on the drawings. Do not adjust masonry units after placing. Where resetting of masonry is required, remove, clean units and reset in new mortar. Leave joints under shelf angles and elsewhere as indicated or required open to receive sealant.

Anchors: Provide anchors to suit design requirements indicated or required.

Build-in items furnished by other trades and leave accurate openings necessary for subsequent installation of other work to maintain required strength and appearance of masonry construction.

Prevent grout, mortar, and soil from staining face of masonry. Remove grout and mortar from these surfaces immediately.

Protect base of masonry walls from rain splashed mud and mortar splatters.

Install weep holes in veneer masonry at maximum 24" on center horizontally above through-wall flashing, above shelf angles, lintels, bottom of walls, and elsewhere as indicated on drawings.

Do not permit mortar to drop or accumulate into cavity air space or to plug weeps.

Install cavity vents a maximum 24" on center horizontally at top of each cavity space, below shelf angles and elsewhere as indicated on the drawings.

Install through-wall flashing over exterior windows, relieving angles, doors, tops of walls, at the inside base of cavity walls, and under sills. Extend ends of sill flashing beyond jamb line and turn up into wall to create an end dam to divert moisture toward the wall face. Extend flashing over veneer, turn up minimum 8" and bed into mortar joint of masonry, or sealed to sheathing.

INSPECTION

The facing shall be free from chips, cracks, crazes or any other imperfection that would detract from the overall appearance of the finished wall when viewed from a distance of 15' at right angles to the wall under diffused lighting.

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 (32" O.C.) at courses above grade, above flashing, and at any water stop (32" O.C.) over windows, doors, and beams.

CLEANING

Keep walls clean daily during installation using brushes, rags, and burlap squares. **DO NOT** allow excess mortar lumps or smears to harden on the finished surfaces. Remove green mortar with burlap or a dry cloth. Harsh cleaning methods after walls have been erected may mar the surface of the units.

FINAL CLEAN DOWN

No ACID or ACID base solutions shall be used in the cleaning of Waterford Stone™ units. A detergent masonry cleaner shall be used following the manufacturer's instructions and the surface shall be thoroughly rinsed with clean water.

MAINTENANCE

Waterford Stone™ units properly installed and cleaned, need virtually no maintenance other than routine cleaning with standard commercial grade cleaning agents. Graffiti, paint or dye stains may need special cleaning methods and products. Visit EchelonMasonry.com for specific cleaning recommendations.

INSTALLATION RECOMMENDATIONS



Cavity wall construction is recommended for exterior walls, with proper flashing, venting and weep holes. Standard commercial grade cleaning agents are recommended. Complimentary or matching mortar color is recommended when using Waterford Stone™ units. Water repellent mortar additive is highly recommended for all exterior walls. Control joint spacing should be approximately 20' -25' max. And located at inside corners, 2-4' from outside corners, wall height changes and at one or both sides of windows or large openings.

LIMITATIONS

The facing is not intended for use as an impervious surface. Muriatic acid should not be used as a cleaning agent or in direct contact with the facing. The facing should not be continuously exposed to temperatures above 250°F.