

Installation Guide

Mountain Stone® Builder Series

Full Bed-depth Stone

Mountain Stone® Builder Series provides you with the distinctive look of natural stone and is installed using the same principles as standard brick with fewer mortar joints and minimal on-site alterations. It is delivered on pallets containing varied-size pieces that allow for a simplified and fast installation. The size of each stone is specifically appointed making it possible for the mason to course and bond with ease. There is less overall waste when compared to natural stone. We encourage you to contact your Mountain Stone dealer representative to discuss any installation techniques specific to your project.

Three Distinct Stone Styles:

- **Traditions™** stone sizes. Random sizes with heights ranging from 2.25" to 10.5" and lengths from 6.5" to 20.5". Thickness is 3" to 3.5".
- **Lexington™** stone sizes. Random sizes with heights ranging from 2.25" to 5" and lengths from 4.4" to 19". Thickness is 3" to 4.25"
- **Heritage™** stone sizes. One stone size only per pallet 6"x6", 6"x12" and 12"x12". Thickness is 3.5" to 4.75".

Estimating Materials

Mountain Stone® Builder Series is sold by the square foot. To estimate the quantity of stone required for your project requires taking the total SF area to be clad minus any openings such as doors and windows. Our stone is sold on an installed square foot basis including a variable joint between each stone ($\frac{1}{2}$ " to $\frac{3}{4}$ "). Also it is recommended to add 3% for simple waste and 5% to 7% for areas where more cuts will be required. Our stone does not require corner units. Corners are constructed as with standard brick products.

Shipping of Mountain Stone

Pallets of stone weigh in the range of 1,400 to 2,200 pounds depending on the stone style selected for the order.

Traditions	2,200 lbs. /pallet @ 120 SF/pallet
Lexington	1,400 lbs. /pallet @ 84 SF/pallet
Heritage	1,100 - 1,400 lbs. /pallet @ 60 SF/pallet

A typical truck load will contain approximately 20 to 22 pallets of materials.

Delivery – Our stone is delivered on pallets or in crates. Lift pallets with proper and sufficiently long slings or forks.

Storage and Handling – Store pallets in a manner designed to prevent damage and staining of the units. Do not use calcium-chloride or de-icing salts to remove ice from masonry surfaces.

Tech Data

- Compressive strength (at 28 days): Meets or exceeds ASTM standard 1800 PSI – typical result is 5,500 PSI avg. minimum.
- Water Absorption (at 28 days): Does not exceed 15.2%.
- Fireproof. Will not contribute to smoke or flame development.
- Colorfastness. Existing applications show no undesirable change in color after years of weathering.

Installation Procedures

Recommended tools and equipment:

Mason's trowel	Mason's saw or chisel	String line
Soft bristle brush	Wheelbarrow	Safety glasses
Hard hat	Mason's hammer	4-foot level
Corner poles	Proper work shoes	Hoe
Metal joining tool	Circular masonry saw	Mortar board

Foundation Requirements

Mountain Stone® Builder Series is a full masonry veneer with a 3 ¼" to 4 ½" depth (includes face texture) requiring a footing or a ledge for installation. Check to make sure the ledge is wide enough to allow a 1" to 1 ½" air space is between the framed wall and the stone. (*Check local building codes for requirements*).

Mortar

Type N mortar complying with ASTM C270 is generally recommended for use with Mountain Stone products. (*Check with your Mountain Stone distributor for recommendations on the correct mortar type for your specific application*).

Wall Ties

For residential applications use non-corrosive masonry ties placed on 16" centers (*or check with local building codes for the required ties and spacing*). Install the ties as you lay the stone to insure proper placement of the ties.

Mortar Joints between the Stones

Most stone installations will use either a recessed or flush joint. The joint width ranges between ½" to ¾". Lay each stone in a full bed of mortar, taking care to fill the head joint as well. Allow the mortar to slightly set until ready for tooling. Use a rounded wooden tool to smooth each joint. Press gently and smoothly. Be sure to seal the joint by tooling to ensure that moisture will not be able to penetrate the joint. Remove unwanted mortar from the face of stones only after it becomes crumbly. Remove loose mortar with a soft brush. It is recommended continuous horizontal joints do not exceed three to four feet.

Cutting the Stone

Cuts are sometimes unavoidable. If cuts are required use a standard masonry saw or mason's chisel.

Flashing & Weeps

Requirements are set by the local building codes department in your area. Check and follow the requirements approved by this department.

Control Joints

Use control joints in select locations such as over garage doors, large windows and on walls that exceed twenty-five feet in length. Control joints can typically be placed in areas to reduce visibility such as inside corners, behind down spouts and beams. Contact your Mountain Stone distributor for information on the following NCMA TEK-NOTES: 5-2A, 10-1, 10-2C, 10-3 and 10-4.

Weep Holes & Vents

Install weep holes and vents at proper intervals (32" OC and 2" long above bed joints), at courses above grade, above flashing and any water stops over windows, doors and shutters.

Maintenance

Mountain Stone® Builder Series is virtually maintenance free and does not require sealant. If a sealant is used the color of the stone will change slightly usually to a deeper shade even after the sealant dries. Sealant will not significantly improve the performance of the product.

Cleaning the Stone

Once the mortar at the joints is cleaned with a soft bristle brush further cleaning must be achieved within 48 hours using a commercial cleaner designed specifically for manufactured stone. Do not use any cleaner that is caustic or acidic. DO NOT use high pressure washers, acid cleaners or bleach. PRE-WET AREA to be cleaned. Apply solution and scrub with soft bristle brush. Rinse thoroughly removing all solution and residue.

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