

Candelbrie **STONE CO.**

Installation, Maintenance and Product Specification Scroll down for Product specifications and maintenance.

INSTALLATION INSTRUCTIONS FOR HAND CRAFTED BUILDING STONE VENEER Hand Crafted Stone is easy to install, even for the most inexperienced do-it-yourselfer. Unlike other manufactured stones which take two persons to install 100 to 200 square feet of stone per day, with Hand Crafted Stone two persons can easily install up to 500 square feet of stone per day.

STEP ONE: PREPARE THE SURFACE Hand Crafted Stone can be easily applied to any structurally sound surface without any wall ties, footings or structural supports necessary due to the stone's light weight. Install the stone directly to the surface of any clean (unsealed, unpainted or untreated) brick, concrete block, or other masonry surface. Metal lath must be applied first to all other surfaces. On metal surfaces, attach the lath with self-tapping screws every 16". On wood surfaces, attach the lath by nailing or stapling on centers every 6", hitting studs whenever possible. Always attach lath right side up with small cups pointing upward. Building paper should be applied on outside surfaces prior to the lath.

STEP TWO: APPLY SCRATCH COAT Apply a scratch coat of thin mortar. Mix mortar with just enough water for a workable consistency.

STEP THREE: MORTAR THE STONE Lay out stones randomly near your work area. After choosing a stone, apply a 1/2" thick layer of mortar evenly on back of stone.

STEP FOUR: APPLY STONE Always install corner stones first. Apply remaining stones by working from the bottom up or top down. Joints between stones should be as tight and uniform as possible. Press stone firmly into place with a gentle wiggling motion to promote bonding. The mortar on back of stone should squeeze out and surround stone.

STEP FIVE: REMOVE /DRESS EXCESS MORTAR When mortar joints are firm, use a wooden or metal striking tool and remove excess mortar. At the same time, firmly press mortar into the joints so edges are thoroughly sealed.

STEP SIX: BRUSH JOINTS Using a whisk broom, brush mortar joints until smooth and all loose mortar has been brushed away. Brush off any loose mortar on face of stones. Never let mortar set overnight before brushing joints.

STEP SEVEN CLEAN STONE-COMPLETION Clean any remaining grout off stone with a wire brush. You may wish to apply a waterproof sealer such as Prime-A-Pell or to the surface of the stone, as sealed surfaces provide ease in cleaning. Follow the same instructions when installing Hand Crafted Brick Veneer, being extra careful to keep your lines straight and level.

ESTIMATING A JOB To determine the amount of stone needed for a project, calculate total square footage of the project area. This can be done by multiplying length X height. Subtract the lineal footage of outside corners to then determine the count of corner pieces required. One linear foot of corner covers approximately 3/4 (.75) of a square foot. Subtract square footage of

area covered by corner stone's to determine remaining square footage for flat stone. We recommend you purchase a few extra stones for cutting and trimming.

TOOLS REQUIRED *Shovel *Hocking Trowel *Plaster Trowel *Wheelbarrow *Hoe/Mixer *Nippers-wide mouth *Hatchet *Saw Blade-Skill saw *Whisk Broom

MORTAR MIXING 1 Bag Type "N" Masonry Cement 18 Average size shovels masonry sand Approximately 5 gallons of water 1 to 5 pounds of Dye HAVE MIXER RUNNING!!!

1. Put about four (4) gallons of water in mixer. 2. Put nine (9) shovels of sand in mixer. 3. Put in dye (1 to 5 pounds) 4. Add masonry cement. 5. Put in nine (9) shovels of sand. 6. Put in rest of water as needed.

PREPARE THE SURFACE 1. Unpainted or untreated brick, concrete block or masonry surface: Install the stone directly to the surface. 2. Painted or treated brick, concrete block or masonry surface: Use a concrete bonding agent or wire lath. 3. On metal surfaces: Attach the lath with self tapping screws every 16 inches. 4. On wood surfaces: Attach the lath by nailing or stapling on centers every 6 inches, hitting studs whenever possible. Always attach lath right side up with small cups pointing upward. Building paper should be applied on outside surfaces prior to the lath.

APPLY MORTAR Apply a coat of thin mortar. Mix mortar with just enough water for a workable consistency. Lay out stones randomly near your work area. After choosing a stone, apply a ½ inch thick layer of mortar evenly on the wall or on back of stone. APPLY STONE Press stone firmly into place with a gentle wiggling motion to promote bonding. The mortar on back of stone should squeeze out and surround stone. Always install corner stone first. Apply remaining stones by working from the bottom up or top down. Mortar joints between stones should be as tight and uniform as possible. Be extra careful to keep your lines straight and level.

DRESS STONE When mortar joints are firm use a wooden or metal striking tool and remove excess mortar. At the same time, firmly press mortar into the joints so edges are thoroughly sealed. Using a whisk broom, brush mortar into the joints so edges are thoroughly sealed. Using a whisk broom, brush mortar joints until smooth and all loose mortar has been brushed away. Brush off any loose mortar on face of stones. Never let mortar set overnight before brushing joints.

COMPLETION Clean any remaining grout off stone with a damp wire brush. You may wish to apply a waterproof sealer such as Prime-A-Pell to the surface of the stone, as sealed surfaces provide ease in cleaning.

MAINTENANCE AND TREATMENTS Candelbrie Stone is virtually maintenance free and occasion may require cleaning from dirt and dust. Simply by using a water hose and or a soft brush with a liquid dish detergent will do the trick. Rinse well with clean water. >Do not use bleach or any harsh chemicals or acid cleaners. >It is not recommended to use a high power pressure washer.

PROTECTIVE TREATMENTS Protecting the stone is not necessary, but in some interior applications a sealer can be used. A sealer Wet Seal can be applied to a back splash for water splash protection or a fireplace exposed to smoke and soot, this will provide added protection and usually easier to clean. Please note this will cause a shiny finish and may darken the look of your stone. PrimeAPell is a protective treatment against moisture and can help protect against rust stains. This product repels against water penetration through the stone and grout joints. When applied this clear liquid dries invisible leaving the appearance unchanged. Great for using

on outdoor kitchens, showers and etc.... Please consult with your masonry contractor for information on protective treatments for your application. Wet Seal and PrimeAPell can be purchased at the local hardware store.

EFFLORESCENCE Efflorescence is a water soluble salt that is deposited on the surface of stucco, concrete, brick and other masonry products by the evaporation of water from the wall. On rare occasions efflorescence will occur on manufactured stone products. This will disappear naturally over time as long as the source of the moisture is controlled or eliminated. • Efflorescence may be removed with a solution of 1 part white distilled vinegar to 6 parts water. Gently scrub using a soft bristle brush and vinegar/water solution. Rinse well with clean water. Efflorescence rarely occurs and is virtually unnoticeable.

PRODUCT SPECIFICATION * Comprehensive Strength 2500PSI (UBC No,2610,and IV) * Tensile Strength : 600PSI (ASTMC190) * Water Absorption : 13% to 15% (UBC NO. 3212) * Thermal Resistance : R=1.24 (using light weight aggregate) ASTMC17771) * Shear Strength :120 PSI to130 PSI (ASTMC482) * Fire Rating :zero flame spread, zero smoke ,zero fuel * Freeze/Thaw :less than 1% (ASTMC6783) * Weight Approximate :shipping weight 612 lbs. per square foot. (using lightweight aggregate) Building Codes 1. HUD material release No. 691A 2. Corporation (Canada) CMHC Evaluation Report number 11834, Number 8183 3. ICBO Evaluation Report Number 2113,3568 4. BOCA Evaluation Report Number 845 5. Southern Building Code Congress International Incorporated , Report Number 8295 6. FHA/VA Materials Release Number 910.