Cultured Stone® and Cultured Brick® Installation Instructions are available separately from your dealer and can also be found at www.culturedstone.com.

Building code requirements vary from area to area. Check with local authorities for building code requirements in your area. Carefully read all Installation Instructions before proceeding with your Cultured Brick products application. Observe safety precautions. Cultured Brick products are covered by a 50-Year Limited Warranty when installed in accordance with the manufacturer’s Installation Instructions. See complete warranty on our website at www.culturedstone.com.

ESTIMATING THE BRICK REQUIRED

Determine the amount of Cultured Brick products needed by measuring the area to be covered. Measure the length times the height to arrive at the gross square footage of flat area needed. Subtract square footage for window, door and other openings. Measure the linear feet of outside corners to determine the amount of corner pieces needed. One linear foot of corner pieces covers approximately 0.80 square feet of flat area. Subtract the flat area covered by the linear feet of corner pieces from the square footage of flat area required. You may wish to obtain some extra brick to allow for cutting and trimming.

FORMULAS

\[
\text{Wall Area} = \text{Length} \times \text{Height}
\]

\[
\text{Window Area} = \text{Window Width} \times \text{Window Height} = \text{Window Area}
\]

\[
\text{Wall Area Covered by Corners} = \text{Lineal Feet of Corners Required} \times 0.80
\]

\[
\text{Square Ft. Flats Required} = \text{Wall Area} – \text{Window Area} – \text{Wall Area Covered by Corners}
\]

TOOLS REQUIRED

Choose the tools required for your installation—see page 2 for table with illustrations and appropriate use.

- Safety Glasses & other personal protective equipment
- Staple Gun or Hammer
- Hock & Trowel
- Margin Trowel
- Wide-Mouth Nippers or Hatchet
- Metal Jointing Tool or Wood Stick
- Whisk Broom
- Masonry, Circular, Table, Wet Saw or Grinder with Carborundum or Diamond Blade
- Wheelbarrow & Hoe
- Mason’s Trowel
- Level
- Dust Mask(1)
- Grout Bag
- Hacksaw

Note: Cutting dust mitigation steps include but are not limited to: wet saw, dust vac system and respirator systems. OSHA may be required due to specific site conditions.

(1) Caution: Product contains Crystalline Silica. Dust from cutting or sawing may create possible cancer hazard. Dust may cause irritation of the nose, throat and respiratory tract. Avoid prolonged or repeated inhalation of dust. A properly fitted, particulate-filtering disposable NIOSH approved N-95 series face piece respirator (“dust mask”) should be used when mechanically altering this product (e.g., sawing, cutting, drilling or similar dust generating processes). Wear a long-sleeved shirt, long pants, gloves and safety glasses with side shields when handling and installing material. Wash hands and face with soap and warm water immediately after handling.
MATERIAL SELECTION

WATER RESISTIVE BARRIER (WRB)

Select a material meeting one or more of the following standards:

- ASTM D226 Type 1 No.15 Asphalt Felt, intended for wall application
- ASTM E2556/E2556M
- ICC ES AC-38. Current Evaluation Report, by an ANSI accredited evaluation service, showing compliance to ICC ES Acceptance Criteria #38

LATH

Select a material meeting one or more of the following standards:

- ASTM C647, minimum 2.5 lb/yd² expanded metal lath
- ASTM C647, minimum 3.4 lb/yd², ¾” rib, expanded metal lath
- ASTM C1032, minimum 18 gauge, woven wire mesh
- ASTM C933, welded wire lath
- Non-metallic lath, with a current evaluation report, confirming compliance to ICC-ES AC 275 confirming alternative to one of the above lath products
- Liquid WRB/Air Barrier—Current Evaluation Report by an ANSI accredited evaluation service showing compliance to code requirements for WRB

MORTAR

Select a material meeting one or more of the following standards:

- ASTM C270 Type N or Type S
- ASTM C1714 Type N or Type S
- Mortar Admixtures: Comply with ASTM C1384
- Coloring Pigment: Comply with ASTM C979
- Bonding Agents: Comply with ASTM C1059 or C932

All mortar, additives, bonding agents and pigments must be stored, mixed and used in strict accordance with the manufacturer’s instructions and appropriate standards referenced above.

Notes: Refer to NCMA Installation Guide [www.ncma.org](http://www.ncma.org) for additional guidance with mortar selection by application. Under mixing, over mixing, tempering and open times of mortar can impact bond. Follow mortar manufacturer’s instructions.
SURFACE PREPARATION FOR MORTAR INSTALLATIONS

Using Table 1, determine the correct surface preparation for your installation.

<table>
<thead>
<tr>
<th>WALL SYSTEM/BACK UP</th>
<th>PREPARATION REQUIREMENTS</th>
<th>2 LAYERS WRB</th>
<th>LATH</th>
<th>SCRATCH COAT</th>
<th>ROUGHEN/TEXTURE</th>
<th>NOTES</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WOOD FRAME 16&quot;oc</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SHEATHING</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>FLYWOOD</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>OSB</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>CEMENT BOARD</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>WALLBOARD</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>½&quot; FOAM BOARD</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>METAL FRAME 16&quot;oc</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SHEATHING</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>EXTERIOR GYPSUM</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>OSB</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>FLYWOOD</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>½&quot; FOAM BOARD</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td><strong>UNIT MASONRY</strong></td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
<td></td>
<td>N/A</td>
</tr>
<tr>
<td>(BRICK OR BLOCK)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>✓ ✓ ✓</td>
<td>OPTIONAL</td>
<td>OPTIONAL</td>
<td>OPTIONAL</td>
<td>SITE EVALUATION</td>
<td>Engineer review recommended for existing unit masonry.</td>
</tr>
<tr>
<td><strong>POURED CONCRETE OR &quot;TILT UP&quot; CONSTRUCTION</strong></td>
<td>✓ ✓ ✓</td>
<td>OPTIONAL</td>
<td>OPTIONAL</td>
<td>OPTIONAL</td>
<td>✓</td>
<td>See ASTM C1780 for roughness evaluation.</td>
</tr>
<tr>
<td><strong>OPEN STUD CONSTRUCTION</strong></td>
<td>✓ ✓ ✓</td>
<td>OPTIONAL</td>
<td>N/A</td>
<td>48 hour scratch coat cure. Use paper backed 3.4 lb rib lath.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>METAL BUILDING</strong></td>
<td>✓ ✓ ✓</td>
<td>N/A</td>
<td>48 hour scratch coat cure. Use paper backed 3.4 lb rib lath.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>SPECIAL CONDITIONS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>INTERIOR INSTALLATION</strong></td>
<td>✓ ✓ ✓</td>
<td>1 LAYER</td>
<td>OPTIONAL</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>CONTINUOUS INSULATION</strong></td>
<td>✓ ✓ ✓</td>
<td>✓ ✓ ✓</td>
<td>N/A</td>
<td>See TCE for lath selection available for framed or masonry applications.</td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>STUCCO</strong></td>
<td>✓ ✓ ✓</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Note:** Optional surface preparation utilizing a rainscreen may be added. See General Information (page 8) for more information.

✓ Some foam products may qualify as WRB. See foam manufacturer instructions.

** Cleaning can be as simple as rinsing dust off the surface with clear water or as involved as bead blasting. You are removing form-release agents, dirt, paint, sealers or anything that may inhibit bond. This process may also be the method to roughen the surface to create bond ready texture. See ASTM C1780 for more information.
SURFACE PREPARATION FOR MORTAR INSTALLATIONS (CONTINUED)

INSTALLING CULTURED BRICK

WATERTABLE/SILL INSTALLATIONS

Watertables/sills provide a transition piece between a stone wainscot and other exterior finishes and for water runoff. They can also be used as a windowsill. Install using galvanized metal support brackets (Simpson Strong Tie A-21 or other galvanized right angle bracket with holding capacity minimum 5 lbs/lf) fastened with galvanized nails or screws penetrating studs 1” at a minimum of 16” on center. Two brackets per sill is preferred if blocking is present. Use construction adhesive to bond stone at bracket locations. Caulk and flash as required at watertable/sill locations using an approved corrosion-resistive flashing that extends to the surface of exterior wall finish and is installed to prevent water from re-entering the exterior wall envelope.

CLEARANCE

Maintain a 4” clearance between Cultured Brick and grade or 2” clearance above a paved surface. Most building codes require the use of a weep screed in framed applications. In framed applications, this distance is measured from the “beak” of the weep screed. When a weep screed is not required—application over masonry as an example—a 2” x 4” leveling/ledger board may be used as a temporary level straight edge to start your installation. See the NCMA Installation Guide for conditions that allow a reduction in clearance requirements.

LAYOUT BRICK PATTERN

Choose the type of wall pattern desired. Allow for a mortar joint of approximately 1/4”, calculate and mark off the number of courses required. Adjust joint size to minimize horizontal cutting. Run level guide lines to ensure proper placement of bricks.

Mix brick from several boxes at a time to achieve a pleasing blend of color and texture.
WETTING EXTERIOR WALLS
Dampen concrete, masonry or stucco wall surfaces with water prior to the application of the brick.

WETTING THE BRICK
The back of the brick should be completely damp, but free from surface water at the time of application. If using a modified mortar, follow manufacturer’s recommendations regarding wetting of brick and scratch coat.

MORTAR & WEATHER CONDITIONS
If brick is being applied in hot or dry weather, the back of each piece should be moistened with a fine spray of water or a wet brush to adequately prevent excessive absorption of moisture from the mortar. If being installed over concrete, masonry or scratch coat substrate, the substrate surface area should also be dampened before applying mortar. Surfaces should appear damp but free of surface water. Applications should be protected from temperatures below 40°F as mortar will not cure properly under such conditions. See ASTM C1780 for Hot & Cold Weather Requirements

APPLYING CULTURED BRICK UNITS

STARTING POINT
Apply mortar and brick working from the bottom up, or from the top down. Working from the top down may help avoid splashing previously applied brick with dripping mortar.

APPLYING MORTAR TO PREPARED SURFACE AREA
Using a plasterer’s or mason’s trowel (Fig. 5 & 6), apply mortar ½” to ¾” thick to prepared surface area. Do not spread more than a workable area (5 to 10 sq. ft.) so that mortar will not ‘set up’ before brick is applied.

SETTING UNITS
Units should be installed with complete coverage of the back of the unit and full contact between the mortar setting bed, unit and prepared backing surface. Back butter the unit, using sufficient mortar and pressure to fill texture and voids in the back of unit (Fig. 7). While ½” to ¾” setting bed mortar is wet, press and work the unit onto the prepared backing with enough pressure to force mortar to squeeze out around the entire perimeter of the unit.

Note: In tight fit applications, before placing next unit, compact or remove the squeezed out mortar to allow adjoining unit to butt tightly. There shall be mortar between the units but the joint will be less than 3/16”.

INSTALL CORNER PIECES FIRST
If your application requires corner pieces, apply these first. Notice that the corner pieces have a long and a short leg. Alternate these in opposite directions (Fig. 8).

INSIDE CORNERS
When using a running bond, set full bricks to half bricks at inside corners, alternating lengths in each course.

INSTALL FLAT BRICK
Start at the end of the wall to complete one horizontal course of brick. Work across the surface area one course at a time. Keep courses level and plumb by using a carpenter’s level to check each course as it is laid.

KEEP YOUR MORTAR JOINTS CONSISTENT
Place the individual bricks close together, creating ½” uniform joints between them. Cut trim as required to achieve consistent width in the mortar joints.
BRICK INSTALLATION INSTRUCTIONS

TYPICAL INSTALLATIONS

**WOOD FRAME**

1. Rigid Foam Insulation

2. Masonry or Concrete

3. Cultured Brick Thin Veneer

4. Mortar

5. Metal Lath

6. Water Resistant Barrier

7. Masonry Adhesive

8. Mortar Joint

9. Brick

**MASONRY OR CONCRETE**

1. Mortar applied directly to untreated, unpainted masonry, concrete or stucco

2. Cultured Brick Thin Veneer

3. Mortar joint

**CORNER PREPARATION**

Water resistant barrier and lath must continuously wrap a minimum of 1/2” at outside/inside corners and fasten at a framing member. Lap water resistant barrier a min. 4” at vertical and 2” at horizontal lap joints. Lap lath a minimum of 1” at vertical and horizontal joints. In sequence: (1) wall substrate, (2) two layers of water resistant barrier, (3) metal lath.

**WORKING WITH MASONRY ADHESIVE (INTERIOR ONLY)**

On some interior projects, the use of masonry adhesive offers a fast and easy alternative to mortar.

**Note:** Do not wet brick when installing with adhesive. Do not install water resistant barrier.

Recommended adhesives include:

- Loctite® PowerGrab
- Liquid Nails®
- Marble & Granite

Loctite® is a registered trademark of Henkel Loctite Corporation. Liquid Nails® is a registered trademark of Franklin International.

**INTERIOR SURFACE PREPARATION REQUIRED WHEN USING MASONRY ADHESIVE**

<table>
<thead>
<tr>
<th>RECOMMENDED SURFACES</th>
<th>Preparatory Work Required</th>
<th>Non-Recommended Surfaces</th>
</tr>
</thead>
<tbody>
<tr>
<td>Loctite® PowerGrab</td>
<td>Masonry adhesive may be applied over most clean and structurally sound interior surfaces such as plywood, concrete block and concrete.</td>
<td>Masonry adhesive is NOT RECOMMENDED for application over smooth textured tile, metal, wallpaper, dyed, or printed paint or surfaces that are continuously damp.</td>
</tr>
<tr>
<td>Liquid Nails®</td>
<td>Preparation: Remove all loose or loose surface material to provide a bonding surface. Alternatives: As an alternative, a primer may be used to create a bonding surface.</td>
<td></td>
</tr>
<tr>
<td>Marble &amp; Granite</td>
<td>Adequate bonding surface required when using masonry adhesive.</td>
<td></td>
</tr>
</tbody>
</table>

**SETTING BRICK WITH MASONRY ADHESIVE**

Place adhesive as per adhesive manufacturer’s instructions on the back of each brick in 1/4 bead, perpendicular to grooves on brick (Fig. 9). Press and wiggle bricks into place on wall surface until they bottom out. Set bricks level and plumb, completing one row at a time. Apply grout between bricks using a mortar bag.

**CUTTING & TRIMMING**

Make half bricks by scoring the back side with a hacksaw and snapping the brick in half. Vertical or horizontal cuts can be made using a table saw, circular saw, or small grinder equipped with a diamond or carbide-tipped blade.

Safety glasses and a dust mask should always be worn when cutting any Cultured Brick products.

**GROUTING & FINISHING JOINTS**

**Grouting Joints**

Use a grout bag to fill in joints. Care must be taken to avoid smearing mortar on brick. Accidental smears or mortar droppings should be removed only after mortar has become crumbly. Use a whisk broom or dry bristle brush. Never use a wet brush or wire brush.
**BRICK INSTALLATION INSTRUCTIONS**

**TYPICAL INSTALLATIONS**

In sequence: (1) sheathing, (2) two layers of water resistive barrier (WRB), (3) metal lath, (4) scratch coat, (5) mortar setting bed, (6) mortar joint.

**INTERIOR SURFACE PREPARATION REQUIRED**

As an alternative, plywood sheathing fastened to the wall bonding surface.

**ALTERNATIVES**

Loose surface materials should be removed. Sanding may be required on very smooth surfaces to achieve a good bonding surface.

**WATER REPELLENT TREATMENTS/SEALERS**

Sealers are not necessary on Cultured Brick products. However, some customers use sealers to help prevent staining in applications prone to smoke, soot, dirt or water splashing. If you choose to use a sealer, make sure it is a Silane, Siloxane or Silane-Siloxane blend breathable sealer. Take note that sealers may darken the color of the stone. A sealer may also slow the natural movement of moisture out of the stone and increase the possibility of efflorescence and/or spalling. For information regarding actual performance or application of sealers, contact the manufacturer of the sealer directly.

**FINISH MORTAR JOINTS**

When the mortar joints have become firm (‘thumb print’ dry), they should be pointed up with a metal jointing tool. Rake out excess mortar, compact and seal edges around bricks. (Setting time will vary depending on wall surface and climatic conditions.)

**CLEANING**

Dirt, etc., may be removed by using a solution of granulated soap or detergent and water with a bristle brush. Do not use a wire brush as it will cause damage to the surface. Rinse immediately with fresh water. Do not attempt to clean using acid or acid-containing products, power-washing, sandblasting or wire-brush cleaning.

**ENHANCED BOND**

Refer to NCMA Installation Guide for application specific mortar recommendations. Pre-blended modified mortars, bonding agents and enhancers may provide greater bond strength. Enhanced bond strength capability may be desired for tight fit applications, tilt up construction or where code jurisdictions require higher bond strength. These products must be compatible with manufactured stone and used in strict accordance with manufacturer’s instructions. These products may also have specific requirements regarding hot or cold weather, exposure to rain/water while curing or water used to dampen the stone units prior to installation.

**SALT & DE-ICING CHEMICALS**

Because concrete and masonry are vulnerable to damage by salt, Cultured Brick products are not warranted against damage incurred from salt or other chemicals used to remove snow or ice. Do not use de-icing chemicals on areas immediately adjacent to a Cultured Brick manufactured brick veneer application.

**SCUFFING**

Scuffing occurs on all natural veneer. Occasionally some scuffing will occur on the surface of Cultured Brick products. This can enhance the natural appearance of your Cultured Brick installation. Some scuff marks can be removed by cleaning as described above.

**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 Cultured Brick products. To remove efflorescence, allow the stone to dry thoroughly, then scrub vigorously with a stiff bristle brush and clean water. Rinse thoroughly—do not use a wire brush. For more difficult efflorescence problems, scrub thoroughly with a solution of 1 part white household vinegar to 5 parts water. Rinse thoroughly.

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RAINSCREEN STATEMENT (CONTINUED)

- If rainscreen space is created with a material other than solid strapping/ furring attached directly to framing, the following must be considered. Lath fasteners must be capable of supporting the weight of the finished wall cladding system considering the unsupported/cantilevered portion of fastener that is equal to the thickness of the rainscreen materials.

**Boral Drain-N-Dry Lath** is a great option when this additional protection is desired. For more information please visit [http://boralamerica.com/cultured-stone/boral-drain-n-dry](http://boralamerica.com/cultured-stone/boral-drain-n-dry).

OVERHEAD APPLICATION

Overhead, horizontal or sloped applications are not included in our building code evaluation reports or acceptances. These applications often require special approval/inspections by local building code inspectors. Contact your architect or engineer for assistance designing these installations.

INSTALLATION OVER THICK FOAM

Installation over foam board thicker than \(\frac{1}{2}\)” may require special fasteners. Consult your architect or engineer for assistance designing a thick foam installation. Please see special technical evaluation reports for installation over continuous insulation for more information available at: [http://www.boralamerica.com/stone/Resources/technical-information/installationguides](http://www.boralamerica.com/stone/Resources/technical-information/installationguides).

USE OF CULTURED BRICK BELOW WATER LEVELS

Cultured Brick is a lightweight concrete material and will not deteriorate from exposure to fresh liquid water. The use of Cultured Brick below water level, in which the water is chlorinated, treated with chemicals or dirty, will likely cause discoloration as it would on any concrete, natural stone or other material. Pool chemicals which contain acid, such as muriatic acid, may cause damage to Cultured Brick, which would not be covered by the 50-Year Limited Warranty. Cultured Brick and many other materials are subject to potential damage from adverse freeze thaw conditions. For that reason, water should be drained below susceptible materials prior to freezing temperatures. Pressure and abrasion from constant fast flowing water may cause some surface deterioration as it would on other concrete materials. The surfaces of concrete and many other materials may be affected by exposure to extensive saltwater conditions. Cultured Brick should not be considered a waterproof material.

CAPPING OFF EXPOSED TOP OF EXTERIOR WALLS, CLADDING TERMINATION OR TRANSITIONS

To achieve a finished architectural look on horizontal or sloping top areas of exterior walls, piers, retaining walls or other surfaces, Cultured Stone capstones or a poured-in-place concrete cap must be used to provide adequate run-off protection to the wall areas. Caps should extend approximately 1”–2” beyond the finished stone surface. Sill stones, flashings or band boards provide overhang at cladding terminations or transitions. **Note:** Cultured Stone corner pieces, flat pieces, or hearthstones should not be used to cap walls.

RETAINING WALLS

All retaining walls must be waterproofed at the fill side. Wall construction should incorporate proper use of granular backfill and provisions for good drainage. A continuous longitudinal drain along the back of the wall set in drain rock is recommended.

CHIMNEY CAP

All chimney chases must be capped with a one-piece cap that extends 1”–2” beyond the finished stone surface to prevent water from entering the wall system. Chimney or chase construction should incorporate proper flashing.

50-YEAR LIMITED WARRANTY

For complete details of the **Cultured Brick 50-Year Limited Warranty** please visit [www.culturedstone.com](http://www.culturedstone.com).

ACCEPTANCE REPORTS & LISTINGS