Cultured Stone® and Cultured Brick® Product 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 Stone® products application. Observe safety precautions. Cultured Stone® 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 STONE REQUIRED

Determine the amount of Cultured Stone® products needed by measuring the area to be covered. Measure the length times the height to arrive at the gross square footage of flat stone 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 ¾ of a square foot of flat area. Subtract the flat area covered by the linear feet of corner pieces from the square footage of flat stone required. You may wish to obtain some extra stone to allow for cutting and trimming. In addition, be sure to verify whether the texture chosen is sold based on coverage with a ½” mortar joint or tight-fitted. Most texture coverages are listed for a ½” joint, the exceptions being Drystack Ledgestone, European Castle Stone, Pro-Fit® Ledgestone and Pro-Fit® Alpine Ledgestone. If you are installing a texture, which states coverage is for ½” mortar joint, in a tightfit application, increase stone by 10-22%.

Formula:

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

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

\[
\text{Lineal Feet of Corners Required} \times .75 = \text{Wall Area Covered by Corners}
\]

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

SUNDRY MATERIAL REQUIREMENTS

A. Mortar Components

1. Premixed: Type N or Type S mortar, meeting ASTM C 270
2. Mortar mixed: as per Table #2 on page 3.
3. Mortar color: iron oxide color (if desired).
4. Water: Potable water

NOTE: Mortar must comply with IBC Section 2103.8, IRC Section R607.1, BNBC Section 2104.7, SBC Section 2104.7.1 or UBC Table 21-A as applicable.

NOTE: Additives should not be used unless approved by building official. Additives should meet the requirements of ASTM C 270 or CSA A179.

B. Water Resistive Barrier

Depending on local building code requirements, barrier shall meet the requirements of ICC Acceptance Criteria 38 “Acceptance Criteria for Water Resistive Barriers.”

Note: Water-resistive barrier must be used on all exterior and interior mortar applications. Water-resistive barrier is not required for application over masonry or concrete.

C. Flashing

1. To maintain the weather-resistance of the exterior wall on which stone products are installed, corrosion-resistant flashing, weep screed and a means of drainage shall be installed at all penetrations and terminations of the stone cladding. Flashing type and locations shall be in accordance with the requirements of the applicable building code.

2. For additional recommendations regarding flashing, refer to the following trade associations, standards, organizations and resources:

a. ASTM E 2112
b. Asphalt Roofing Manufacturers Association (ARMA)
c. Brick Institute of America (BIA)
d. The American Plywood Association (APA)
e. Local building department
f. Architect or engineer
g. Masonry Veneer Manufacturers Association (MVMA) installation guide for adhered concrete masonry veneer, available at www.masonryveneer.org
D. Metal Lath
1. Minimum 2.5-lb. galvanized self-furring expanded metal lath (diamond mesh) meeting the requirements of ASTM C 847, or min. 18-gauge galvanized self-furring woven wire mesh meeting the requirements of ASTM C 1032.
2. For metal buildings and open stud construction—minimum 3.4-lb. 3⁄8" rib, paper-backed, expanded galvanized metal lath.
3. Or other code accepted mesh or lath.

E. Fasteners
1. Galvanized nails, staples, concrete nails.
2. Corrosion-resistant, self-drilling, self-tapping pancake-head screw with 3⁄8" head, of 1½" length or suitable to obtain 3⁄8" penetration beyond inside surface of metal. (Used for installing to metal surfaces such as metal studs or metal building siding.)

F. Masonry Sealer
1. Silane-based breather-type sealer (if required).

See “Sealers” in General Information section (page 6).

SURFACE PREPARATION FOR MORTAR INSTALLATIONS
Using Table 1, determine the correct surface preparation for your installation.

<table>
<thead>
<tr>
<th>WALL SURFACE</th>
<th>INTERIOR &amp; EXTERIOR PREPARATION REQUIRED</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rigid Backwall</td>
<td>Cover sheathing with a two (2) layers of breather-type water-resistive barrier, lap joints minimum 6&quot; at vertical joints and minimum 2&quot; at horizontal joints in shingle fashion. Then, in accordance with local building code, lap and install lath or mesh using galvanized nails or staples 6&quot; on center vertically, penetrating studs a minimum of 1&quot;. Continuously wrap water resistive barrier and metal lath a minimum of 16&quot; to next framing member around all outside and inside corners (Fig. 1). Apply 1⁄2&quot; to 3⁄4&quot; scratch coat.</td>
</tr>
<tr>
<td>Plywood Paneling OSB Concrete Board Polystyrene Insulation Board installed over a Rigid Backwall</td>
<td>Examine newly poured concrete closely to ensure that its finished surface contains no release agents (form oil). If it does contain form oil, etch surface with muriatic acid, rinse thoroughly and or score with a wire brush, beadblast or sandblast (Fig. 3). No further preparation needed.</td>
</tr>
<tr>
<td>Clean &amp; Untreated Concrete Masonry Stucco*</td>
<td>Sandblast, beadblast or waterblast to original surface (remove sandblasting dust by washing) or securely attach lath.</td>
</tr>
<tr>
<td>Dirty, Painted or Sealed Concrete, Masonry or Stucco</td>
<td>Sand blast, bead blast or water blast to remove any paint or sealant.</td>
</tr>
</tbody>
</table>

Metal Buildings
Install primary water resistive barrier. Lap and install 3.4-lb. 3⁄8" rib, paper-backed, expanded metal lath to metal cladding supports of 20 ga. to 12 ga. using corrosion-resistant, self-drilling, self-tapping pancake-head screw with 3⁄8" head, of 1½" length or suitable to obtain 3⁄8" penetration beyond inside surface metal. Screws are to be installed on center equal to 1 screw/sq. ft. and shall not exceed 6" on center in one direction. Apply 1⁄2" to 3⁄4" scratch coat and allow to dry 48 hours (Fig. 4).

Insulation Board or Open Studs
Polyurethane Foam Board
Please see Installation Over Thick Foam note page 7

Install primary water resistive barrier. Lap and install 3.4-lb. 3⁄8" rib, paper-backed, expanded metal lath to studs using nails which penetrate a minimum of 1" at 4" on center. Apply 1⁄2" to 3⁄4" scratch coat and allow to dry 48 hours (Fig. 2).

*Stucco cement plaster meeting requirements of ASTM C926, or other building code approved stucco. EIFS systems are not an approved backing for Cultured Stone®.

WATER RESISTIVE BARRIER (WRB)
When installing manufactured stone veneer, in an exterior application requiring a WRB, two separate layers of WRB shall be used. Each layer of WRB should meet the requirements for Water Resistant Barrier (Grade D) as defined by ICC Acceptance Criteria AC-38, or ASTM E 2556/E 2556M. Installation of the WRB should follow instructions provided by specific manufacturer. When installing manufactured stone veneer in an interior application, a single layer of WRB is recommended.

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-resistant flashing that extends to the surface of exterior wall finish and is installed to prevent water from re-entering the exterior wall envelope.

INSTALLING STONE AT GROUND LEVEL
Keep the finished edge of the Cultured Stone® product a minimum of 4" above grade if earth or 2" above pavement. Use a 2" x 4" leveling strip (straightedge) or weep screw/flushing. Framed (wood or metal) applications are required by code in many jurisdictions to have weep screw or a
weeped casing bead, at the base of the wall or foundation transition. This will:
- Provide drainage as required by applicable building code.
- Avoid possible staining of the stone by soils containing alkali or other minerals.

**PREPARE YOUR WORK AREA**

Spread Cultured Stone® wall veneer out at the job site so you have a good variety of sizes, shapes and colors to choose from. Plan for some variety and contrast in the overall design. Use small stones next to large ones, heavy-textured pieces next to smooth, thick stones next to thinner ones. Mixing Cultured Stone® wall veneer from different boxes during application will allow you to achieve a desirable balance of stones on your finished project.

**MORTAR**

**NOTE: Weather Conditions**

If stone 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. Do not use antifreeze compounds to lower the freezing point cold weather construction requirements.

**A. Mixing Mortar/Grout**

Using Premixed Type N or Type S mortar or components from Table 2, mix to a firm, moist consistency. Mortar that is too wet will be weak and messy. Mortar that is too dry and crumbly will not provide proper bond. Mortar is not to choose from. Plan for some variety and contrast in the overall design. Use small stones next to large ones, heavy-textured pieces next to smooth, thick stones next to thinner ones. Mixing Cultured Stone® wall veneer from different boxes during application will allow you to achieve a desirable balance of stones on your finished project.

**B. Mortar Color**

Tinting mortar complements the color of the stone being installed. Example: Use tan mortar with earth-tone stones. This will greatly enhance the appearance of the finished installation. Regular mortars can be tinted to complement the color of the stone being installed. Example: Use tan mortar with earth-tone stones. This will greatly enhance the appearance of the finished installation. Regular mortars can be tinted to complement the color of the stone being installed.

**C. Applying Mortar to Prepared Surface Area**

Using a plasterer’s or mason’s trowel (Fig. 5 and 6), apply mortar 1/4” to 3/4” 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 stone is applied.

**APPLYING CULTURED STONE® PRODUCTS**

See page 4 for additional instructions concerning Pro-Fit® Ledge-stone, Pro-Fit® Alpine Ledgestone and European Castle Stone.

**A. Starting Point**

Apply mortar and stone working from the bottom up, or most stones can also be applied from the top down. Working from the bottom up may help avoid splashing previously applied stone with dripping mortar. Ledgestone types should be installed from the bottom up.

**B. Joint Width**

In order to obtain the most natural look, joints should be as narrow as possible. The average should not exceed 1/4” in width. An attractive look can also be achieved by fitting stones tightly together if desired. If using tight fit/drystack method, it is important to make sure scratch coat/backing has been covered completely by the setting bed of mortar. This will conceal the scratch coat/backing and prevent pockets from forming behind stones that could trap water.

**C. Setting the Stones**

Press each stone into the mortar setting bed firmly enough to squeeze some mortar out around the stone’s edges. Apply pressure to the stone to ensure a good bond. Ensure complete coverage between the mortar bed and back surface of the stone. Mortar may also be applied to the entire back of the stone (Fig. 7). When stone is installed correctly, lath will not be visible. The mortar setting bed shall be between 3/4” minimum and 1 1/4” maximum.

Care must be taken to avoid smearing mortar on surface of stone. Accidental smears or mortar droppings should be removed using a whisk broom only after mortar has become crumbly.

**D. 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).

**E. Install Flat Pieces**

After the corner pieces are in place, flat pieces are applied working toward the wall center (Fig. 9).

**F. Keep Your Mortar Joints Consistent**

Place the individual stones close together, creating uniform joints between them. Cut and trim as required to achieve consistent width in the mortar joints. Then trim and fit small pieces into any remaining voids (Fig. 10).

**G. Cutting and Trimming**

Stones can be cut and shaped for fit. Use wide-mouth nippers or a hatchet (Fig. 11 and 12). (Refer to page 7—Tools Required.) Some broken stones may be found in the box. These also may be used in filling gaps between large stones. For best finished appearance, coat cut or

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**Table 2 – Proportions for Mortar**

<table>
<thead>
<tr>
<th>Mortar Type</th>
<th>Portland Cement or Blended Cement</th>
<th>Masonry Cement Type N</th>
<th>Masonry Cement Type S</th>
<th>Hydrated Lime or Lime Putty</th>
<th>Aggregate</th>
</tr>
</thead>
<tbody>
<tr>
<td>N</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td>4/5 to 6</td>
</tr>
<tr>
<td>N</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td>2/3 to 3</td>
</tr>
<tr>
<td>S</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td></td>
<td>2/3 to 3</td>
</tr>
</tbody>
</table>

---

**Figure 5**

Apply mortar using a plasterer’s trowel.

**Figure 6**

Apply mortar using a mason’s trowel.

**Figure 7**

Mortar applied to the entire back of the stone.

**Figure 8**

Apply corners—alternating long and short legs in the opposite direction.

**Figure 9**

Apply flat pieces.

**Figure 10**

Position large pieces first, then trim and fit in smaller pieces.
broken edges with mortar. If possible, position cut edges up when they are above eye level, down when below eye level. **SAFETY GLASSES AND A DUST MASK® SHOULD ALWAYS BE WORN WHEN CUTTING ANY CULTURED STONE® PRODUCTS.**

**NOTES:**

**Level and Plumb Joint Lines**
When applying Cobblefield® manufactured stone veneer, European Castle Stone, Limestone, Rockface, Coral or Ledgestone, endeavor to maintain level and plumb joint lines. Also, long rectangular pieces will look most natural if applied horizontally.

**River Rock and Stream Stone**
When applying River Rock or Stream Stone, plan the placement of stones to minimize trimming and cutting to maintain the natural look of the rounded shapes.

**Ledgestone Types**
When applying ledgestone types, keep joints as small as possible to maintain a natural look, and install from the bottom up. Strike joints deeply, being careful not to expose the back edge of stones or scratch coat/backing. See page 4 for additional instructions regarding Pro-Fit® Ledgestone, Pro-Fit® Alpine Ledgestone and European Castle Stone.

**GROUTING AND FINISHING JOINTS**

**A. Grouting Joints**
If additional mortar is required, use a grout bag to fill in joints (Fig. 13). Care must be taken to avoid smearing mortar on surface of stone. Accidental smears or mortar droppings should be removed only after mortar has become crumbly using a whisk broom or dry bristle brush. Never use a wet brush or wire brush.

**B. Finishing Joints**
When the mortar joints have become firm or “thumb-print” dry (setting time will vary depending on wall surface and climatic conditions), they should be pointed up with a wood stick or metal jointing tool. Rake out excess mortar, compact and seal edges around stones (Fig. 14). Careful attention to proper and even jointing will result in a professional looking finish.

**C. Cleaning Finished Job**
At the end of the work day, or when mortar is sufficiently set up, the finished job should be broomed or brushed to remove loose mortar and to clean the face of the stone. **A wet brush or sponge should never be used to treat the mortar joints** as this will cause staining that will be difficult, or impossible, to remove. **Do not use acid or acid-based products.**

**TYPICAL INSTALLATIONS:**

**Wood Frame:**

**Rigid Foam Insulation:**
1. rigid foam insulation, 2. two layers of water resistive barrier, 3. galvanized metal lath, 4. scratch coat, 5. mortar setting bed, 6. Cultured Stone® manufactured stone veneer, 7. mortar joint.

**Masonry or Concrete:**
1. mortar applied directly to untreated, unpainted masonry, concrete or stucco, 2. Cultured Stone® manufactured stone veneer, 3. mortar joint.

**Corner Preparation:**
Water resistive barrier and lath must continuously wrap a minimum of 16” at outside and inside corners and fasten at a framing member. Lap water resistive barrier a minimum of 4” at vertical and 2” at horizontal lap joints. Lap lath a minimum of 1” at vertical and horizontal seams. 1. wall substrate, 2. two layers of water resistive barrier, 3. metal lath.
ADDITIONAL INSTRUCTIONS FOR PRO-FIT® LEDGESTONE, PRO-FIT® ALPINE LEDGESTONE AND EUROPEAN CASTLE STONE

Fit the Joints Tightly
Install all these products with tight-fitted joints. Generally, components should be placed butting each other and aligned for level and plumb. When installing, the backs of all these components must be wet. They should be noticeably damp, but free from surface water. Mortar must be tinted to match the color of the stone you are installing to help conceal the joint lines.

A. Starting Point
Products are applied starting from the bottom and working up. Start each ProFit® Ledgestone course level and continue horizontally completing each course before starting the next. European Castle Stone is done in a similar sequence to achieve a random ashlar pattern. If required, cut the appropriate size component to fit at the end or top of the finish area (Fig. 18). Frequently check the installation for level and alignment.

B. Install Corner Pieces First
If your application requires corner pieces, start by installing a corner piece first, followed by the adjoining flat pieces. Notice that the corner pieces have a long and short leg. Alternate these in opposite directions.

C. Setting the Stones
Press each stone into the mortar setting bed firmly enough to squeeze some mortar out around the mortar groove at the back edge of component. Apply pressure to the component to ensure a good bond. Ensure complete coverage between the mortar bed and back surface of stone. Mortar may also be applied to the entire back of the stone. Check for level and plumb.

D. Install Flat Pieces
After the first corner piece is in place, the adjoining flat pieces of each course or pattern are applied. Using a trowel, strike off the excess mortar around the edges of the component prior to placing the next component. This will allow the next adjacent component to fit tightly (see Fig. 15). Choose the correct length component to ensure that vertical joints do not line up.

E. Cutting and Trimming
Vertical or horizontal cuts can be made using a table saw, circular saw or small grinder equipped with a dry cutting diamond or carborundum blade. CUTTING SHOULD BE DONE OUTSIDE AS SOME DUST WILL OCCUR. SAFETY GLASSES AND A DUST MASK® SHOULD ALWAYS BE WORN WHEN CUTTING ANY CULTURED STONE® PRODUCTS. Stones can also be cut and shaped using wide-mouth nippers or a hatchet.

Additional Information on Cutting and Fitting
Finished Edges—Place finished edges at exposed areas. Cut Edges—Place cut edges within courses.

Finishing Joints
The design simplicity of Pro-Fit® Ledgestone, Pro-Fit® Alpine Ledgestone and European Castle Stone allows for easy installation of components and provides a finished, tightfit joint between the stones. This reduces the time required for cutting, grouting and jointing.

Surface Cleaning
Care must be taken to avoid smearing mortar on the surface of components. Accidental smears or mortar droppings should be removed with a whisk broom or dry bristle brush only after mortar has become crumbly. Do not use a wet brush, sponge or a wire brush. Do not use acid or acid-based products, power-washing, sandblasting or wire-brush cleaning.

INSTALLING FINISHING TOUCHES
Hearthstone Installation Instructions
Hearthstones are not recommended or warranted for exterior use or as a surface area subject to foot traffic. TERRA CRAFT® Pavers are available from your dealer for use as a hearthstone or for patios and walkways. Consult surface preparation table 1 for requirements prior to installing Hearthstone.

A. Place Mortar
Place mortar ¾” deep in 3-inch wide strips 1 inch apart on prepared surface (Fig. 16).

B. Install Hearthstones
Place the first Hearthstone onto the mortar bed and level (Fig. 17). Place adjacent Hearthstones, aligning and leveling with the first piece.

If joints need additional mortar, fill joints using a grout bag. Tool and finish joints following previous instructions under “Grouting and Finishing Joints.” Ensure Hearthstones are set in a complete bed of mortar.

C. Cutting and Trimming Hearthstones
Hearthstones can be cut as required using a circular saw fitted with a carborundum or diamond blade or using a mason’s brick or tile saw. Place finished edges at exposed areas. SAFETY GLASSES AND A DUST MASK® SHOULD ALWAYS BE WORN WHEN CUTTING ANY CULTURED STONE® PRODUCTS.

NOTES: Hearthstone Installation UL Listed
Cultured Stone® manufactured stone veneer and hearth products are made from non-combustible materials. Mortar joints must not exceed ¼” in width and the mortar must be even with the top of the hearth surface.

Raised Hearth
Do not cantilever or extend Hearthstones more than 1½” beyond direct support. When grouting the extended portion of a cantilevered Hearthstone, bring the grout to the front edge. Push a long galvanized nail horizontally into the grout to add support, then cover the nail with mortar.
Sealing Fireplaces/Hearth
If desired, sealing the Cultured Stone® facing or hearth of a fireplace installation will assist in the removal of smoke and soot stains should they occur. See “Sealers” in General Information section for more information (page 6).

Cultured Stone® Electrical Box Stones Installation Instructions
NOTES: Electrical Box Stones Installation
• Electrical Box Stones must be installed in accordance with Cultured Stone® Installation Instructions.

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Tuscan Lintel Installation Instructions
Method One
On installations where the top of the opening provides no support for the bottom edge of the Tuscan Lintel: Install metal support brackets as per Cultured Stone® Installation Instructions for Watertables/Sills. Then install Lintel stones in a full setting bed of mortar in accordance with Cultured Stone® Installation Instructions.

Method Two
On installations where the bottom edge of the Tuscan Lintel will be supported by a window or door frame's molding or profile: Install lintel stones in a full setting bed of mortar in accordance with Cultured Stone® Installation Instructions. Make sure you do not cause deflection to window with weight of Lintel. If there is any question, use method one.

GENERAL INFORMATION
Cleaning
Dirt, etc., may be removed by using a strong 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. For help with serious cleaning problems, contact your local dealer. Do not attempt to clean using acid or acid-containing products, power-washing, sandblasting or wire-brush cleaning.

Salt and De-Icing Chemicals
Because all concrete and masonry are vulnerable to damage by salt, Cultured Stone® 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 Stone® manufactured stone veneer application.

Scuffing
Scuffing occurs on all natural stone. Occasionally some scuffing will occur on the surface of Cultured Stone® products. This can enhance the natural appearance of your Cultured Stone® manufactured stone veneer 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 Stone® 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. For unusually difficult cleaning problems, contact your local Cultured Stone® dealer.

Sealers
Sealers are not necessary on Cultured Stone® 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-based, 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.

Use of Cultured Stone® Below Water Levels
Cultured Stone® veneer is a lightweight concrete material and will not deteriorate from exposure to fresh liquid water. The use of Cultured Stone® veneer 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 materials. Pool chemicals which contain acid, such as muriatic acid, may cause damage to Cultured Stone® products, which would not be covered by the Cultured Stone® 50 Year Limited Warranty. Cultured Stone® veneer, concrete and many natural stone 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 salt-water conditions. Cultured Stone® veneer should not be considered a waterproof material.

INTEGRATE GOOD BUILDING PRACTICES
INTEGRATE BUILDING CODE REQUIREMENTS

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 Stone® manufactured stone veneer application.

Exterior Applications
Make sure that the application of Cultured Stone® products and the structure they are being applied to incorporate good building practices. Rigid, corrosion-resistant flashing shall be installed at all wall penetrations. Flashing type and locations shall be in accordance with the requirements of the applicable building code. On exterior applications, the incorrect installation or absence of flashing, cant strips, gutters and downspouts may result in diversion of water run-off onto finished surface areas. Masonry and other building products subjected to these conditions may develop staining and, when combined with severe freeze-thaw conditions, may eventually cause damage. The application of Cultured Stone® products under these conditions is not recommended.

Rainscreen Statement
Some building codes require a rainscreen behind cladding materials, including manufactured stone veneer. If you are installing manufactured stone/brick veneer in one of these jurisdictions, or are concerned about extreme weather conditions, it is recommended that you choose a rainscreen system that can achieve the following:

- The system should create a space with a minimum depth of 1/4” (10mm) and maximum depth of 3/8” (19mm).
- The materials should be corrosion and rot resistant.
- Unless otherwise designed to manage moisture vapor, the system should be vapor open.
- 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.

Overhead Application
Overhead, horizontal or sloped applications are not included in our building code evaluation reports or acceptances.

CAUTION: Contains Crystalline Silica. Dusts from cutting or sawing may create possible cancer hazard. Dusts of this product may cause irritation of the nose, throat and respiratory tract. Avoid prolonged or repeated inhalation of dust from this product.

A properly fitted NIOSH approved N-95 series disposable particulate filtering facepiece respirator (formerly referred to as “dust masks”) should be used when mechanically altering this product (e.g., sawing, cutting, drilling or similar dust generating processes). Wear 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 this product.

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 ½” may require special fasteners. Consult your architect or engineer for assistance designing a thick foam installation.

Capping Off the Exposed Top of Exterior Walls
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.

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.
Cultured Stone® 50-Year Limited Warranty
Cultured Stone® products are covered for a period of 50 years from the date of purchase when used on a structure which conforms to local building codes and when installed in accordance with the manufacturer’s instructions. Cultured Stone® will repair or provide, free of charge, new materials to replace any determined to be defective pursuant to our express limited warranty. This warranty is limited to the original purchaser and may not be transferred to any subsequent owner.

This warranty does not cover damage resulting from:
• Settlement of the building or other wall movement
• Contact with chemicals or paint
• Discoloration due to airborne contaminants
• Staining or oxidation

Our warranty does not cover labor costs incurred in removal and replacement of defective products. For complete details of our Cultured Stone® 50-year limited warranty please visit our website at www.culturedstone.com. Hearthstones are not warranted for use on the ground or as a surface area subject to foot traffic.

To learn more about Cultured Stone® products
visit www.culturedstone.com
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