

- Authors of this installation guide, offer no warranties, implied, stated, or expressed regarding the information found in this guide, including techniques, construction methods, drawings or materials identified in this instruction guide. This is due to the fact that the authors cannot be present to inspect installation thus assuring exact adherence to this guide and to applicable building codes and ASTM C1063. To the best of their knowledge the information written is correct and up to date as of its publication date.

FACTORY LOCATION

CENTURION STONE PRODUCTS, INC.

50 VAN BUREN STREET

NASHVILLE, TN 37208

PHONE: 615-256-6694

FAX: 615-726-1795

WWW.CENTURIONSTONE.COM



MANUFACTURER’S INSTALLATION INSTRUCTIONS

CAREFULLY READ ALL THE INSTALLATION INSTRUCTIONS BEFORE PROCEEDING WITH YOUR CENTURION STONE VENEER PROJECT

Good building practices are essential in stone work. Building codes vary from area to area and it is recommended you know and follow your local codes prior to starting your installation. The following construction details are options for stone veneer installations; they will not apply to all circumstances you may encounter. For additional information, refer to our national evaluation report NO. NER-543

TECHNICAL INFORMATION FLASHING FOR STONE VENEER INSTALLATION

To maintain the weather-resistance of the exterior wall on which the stone is installed, a means of drainage should be installed at all wall penetrations and terminations of the stone veneer. Flashing type and locations shall be in accordance with the building code.

Note: If you give water a way to pass down and out of your wall, it will! All waterproofing systems inherit the risk of failure. You can reduce and help eliminate this risk by proper flashing and weep hole placement. By flashing and placing weep screeds at the lowest points of a wall where water accumulates, they will help the water escape every time.

The following details are provided as ideas for solutions to architectural designs. They may require changes to meet your particular design requirements. Liability for the use of these or other construction details are the general contractor, installer and flashing contractor’s responsibility.

Flashing should be installed by trained flashing personnel. If flashing contractors are not available flashing should be installed by the crews installing the windows, roofs, siding, etc.

Flashing: How it Affects the Total Job- Flashing must be in place prior to the weather barrier installation. Though flashing is not the responsibility of the lathing contractor, it is very important that the contractor be aware that poor or nonexistent flashing could cause deterioration to the stone job. Water intrusion through an unsealed opening can admit large amounts of moisture into the wall cavity.

More than 95% of leaky stone walls involve flashing that was improperly installed around openings in exterior walls where the lath and scratch coat interface with other products. Codes state that openings in exterior walls must be flashed to make them weather tight, not only window and door openings, but any wall penetrations. Though flashing is usually not the responsibility of the lath/mason contractor, it is his/her responsibility to install a weather resistant barrier to divert intruding water down and out of the envelope. All flashings must be in place at windows, doors, roof lines, sill plates and all other outlets where moisture could enter the wall cavity. The mason must be familiar with local code requirements and the proper installation of lath. The lathing and flashing must meet codes.

A quality framing, sheathing, flashing and lathing job will not guarantee a trouble free stone job, but will go a long way in improving the odds the job will be successful, durable and beautiful for generations to come.

The lather should go over the entire job where the stone is to be installed and after inspecting that all is correct and in place proceed to the next step of installation.

Weep Screed Installation- The application of a foundation weep screed should be considered part of the flashing and drainage system. The screed is installed after the flashing is in place. ASTM defines foundation weep screed as an accessory used to terminate Portland cement base stucco at the bottom of all framed exteriors walls. Flashing should be in place at the floor line, where the wall is supported by a floor or foundation and the foundation weep screed is applied over flashing. (REFER TO FLASHING ASTM C1063) Water that might make its way past the cementitious membrane hits the paper and flows to the bottom of the assembly to the weep screed. The screed facilitates the ability of this moisture to escape the system and drip away from the surface. (Centurion Detail J.0.1)

CENTURION CASTLE ROCK LAYOUT

Specifications :

CAN BE INSTALLED IN RANDOM ASHLAR PATTERN OR REPEATING PATTERN FOR QUICK INSTALLATION WITH MIN. CUTTING

90 DEGREE CORNERS

AVERAGE THICKNESS OF ONE AND ONE FOURTH INCH.

PATTERN SIZED FOR A ONE HALF INCH MORTAR JOINT.

CONVENIENT, EASY TO HANDLE PACKAGING

FLATS				
#1	- 6x6	- 5 PCS		
#2	- 6x9	- 6 PCS		
#3	- 9x12	- 4 PCS		
#4	- 12x12	- 2 PCS		
#5	- 6x12	- 3 PCS		

CORNER	SIZES	LIN.FT.	SQ.FT.	C TO F	
#	PCS	PCS	TOTAL	FACTOR	
A	4	6"x6"x12"	12"	4'	3.2
B	4	3"x12"x12"	12"	4'	3.2
C	8	3"x9"x9"	9"	6'	4.75
D	4	3"x9"x6"	6"	2'	1.58
APPROX. COVERAGE		16'	12.75	x.80	

NOT TO SCALE

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

CENTURION CASTLE ROCK

M.0.9

BILTMORE INSTALLATION PATTERN LAYOUT

Specifications :

SOME CUTTING MAY BE REQUIRED TO FIT PATTERN AROUND OPENINGS SUCH AS WINDOWS AND DOORS.

FLATS PATTERN	
A	- 6x24 - 1 PCS
B	- 6x18 - 2 PCS
C	- 6x15 - 1 PCS
D	- 6x12 - 1 PCS
E	- 9x12 - 2 PCS
F	- 12x12 - 2 PCS
G	- 12x21 - 1 PCS
H	- 9x18 - 1 PCS

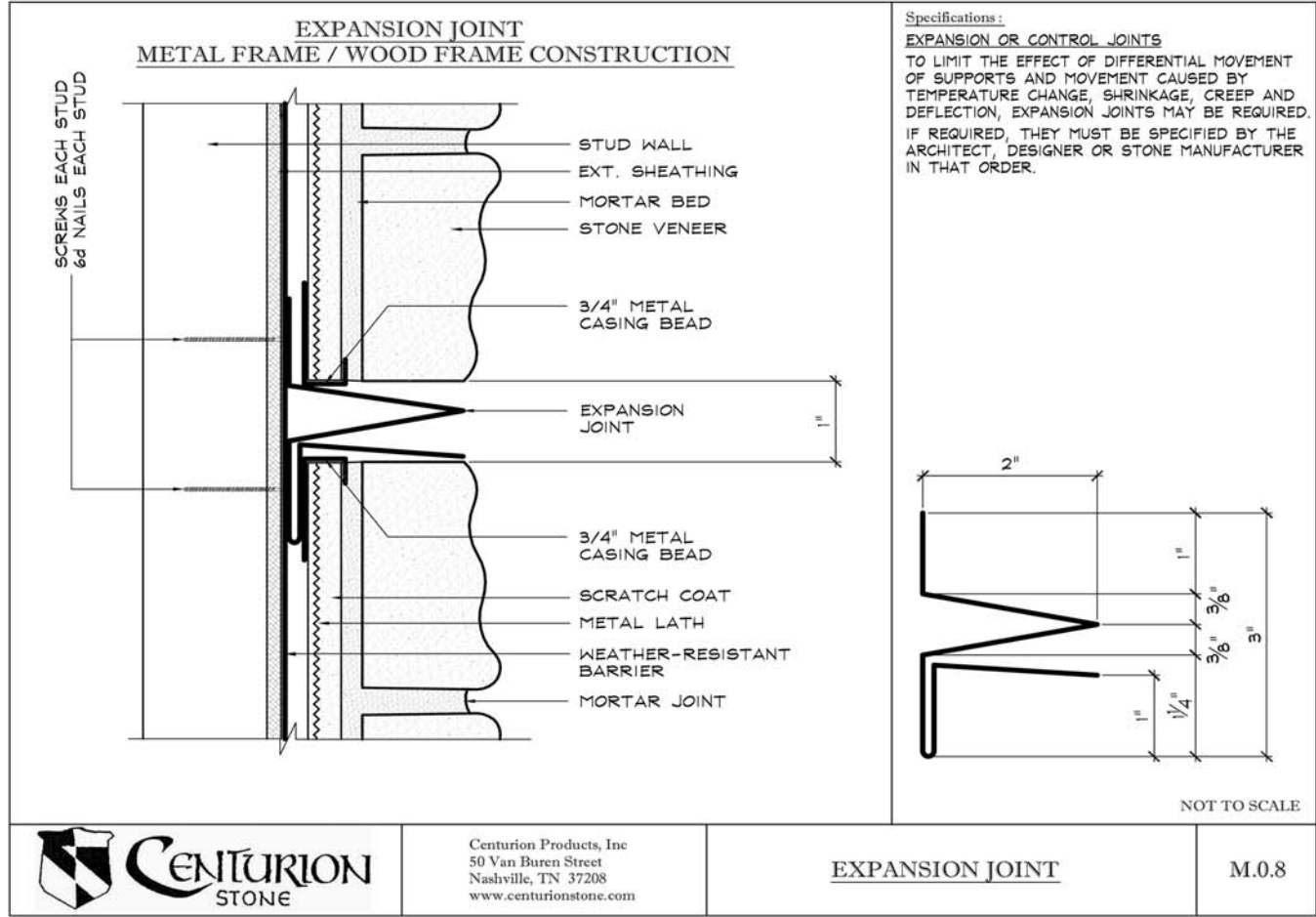
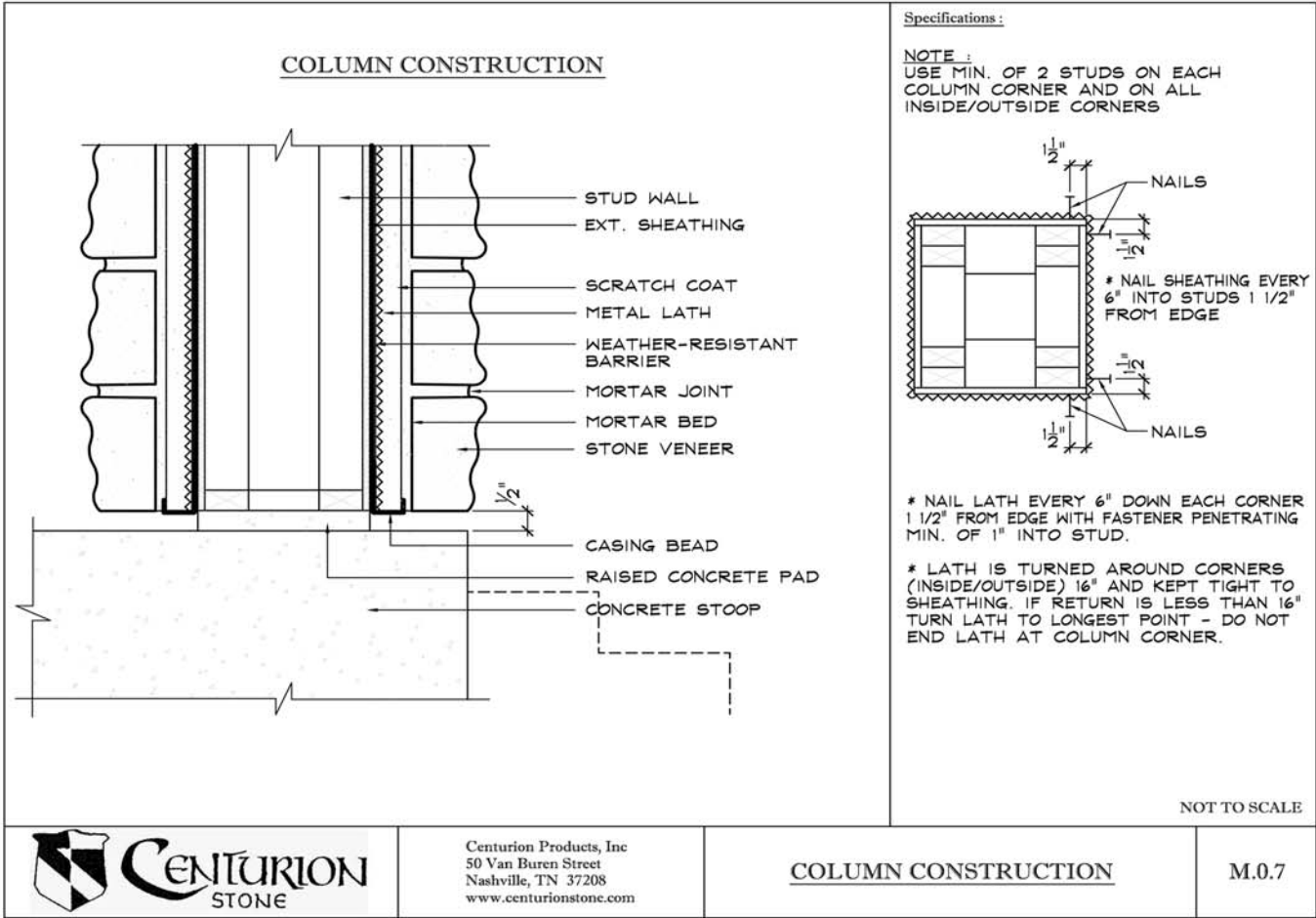
CORNER PATTERN	
#1	- 6x6x12 - 1 PCS
#2	- 3x9x12 - 1 PCS
#3	- 3x9x9 - 2 PCS
#4	- 3x6x9 - 1 PCS

NOT TO SCALE

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

BILTMORE INSTALLATION PATTERN

M.0.10



Casing Bead Installation The next step is the installation of all casing beads, also known as plaster stops. The casing bead is used at all termination points, except at the bottom of the framed walls which receive a weep screed. If the casing bead is installed directly through sheathing, the issue of the continuous paper coverage must be considered. Complete coverage can be accomplished by applying paper strips to the sheathing wherever casing bead will be installed. These strips should also precede the installation of lath. Caution must be taken to see that no sheathing is left exposed to the wet stucco. After inspecting the casing bead installation, you now proceed to the next step of installing the weather barrier. Casing bead installation is normally on commercial installations and may not be required on single family homes see detail. (Centurion Detail E.0.3)

Weather Resistant Barriers A cement scratch coat is a breathable water resistant system. This remains true if none of the system components compromise or impedes the movement of moisture vapor through the wall cavity. There are several weather barriers available in the market today. The most popular is the grade "D" building paper. When looking at these products one must choose from the following:

1. **FELT PAPER:** Felt is a rag material saturated with asphalt. Some designers specify the use of #15 or #30 felt paper as a water resistant backing. These papers are highly water resistant, and have very low vapor permeability. In colder climates moisture that is trapped in the wall cavity can lead to deterioration of the insulation, framing, and sheathing metals.

2. **CLASS "D" BUILDING PAPER:** The lath industry generally recommends the use of grade "D" building paper that meets federal specification UU-B-790A, which is water resistant, yet retains a high degree of vapor permeability. Class D paper is applied to lath at the factories throughout most of the United States and Canada. The perm rating on grade "D" paper offers 35 perms in a 24 hour period. In areas governed by the new international building code, two layers of grade "D" paper or equivalent are required over wood based sheathing.

If felt paper or class D building paper is chosen as the vapor barrier the paper is attached in ship lapped style, lapping the horizontal joints 2" on the top and 6" on the end joints.

Flashing and Weather Resistant Barrier (paper) Application Sequence If the offset paper back lath is designed into the job the paper backing is offset 2" on top and left end of the lath. Proper installation of this lath starts by overlapping the top flange of the foundation weep screed with an 8 to 10 inch strip of building paper. Since the paper is recessed on the bottom right or left corner of the wall (depending on the paper lap on the lath) the uniform building code requires a 6" end lap and 2" on top edges. Paper must not be placed between metal lath sheets and flanges of accessories. This will prevent the lath sheets from bonding together.

While discussing building papers it is important to mention that all openings must be flashed with waterproof paper or specifically designed metal flashings. One alternative to metal flashing is the rubberized asphalt self-adhered flashings, preferably one that is self-sealing when penetrated with fasteners.

When paper-backed lath is applied correctly and flashed properly any incidental moisture that flows along the paper surface will exit the assembly as it should.

Lath Installation & Precautions Attachment of lath depends on many factors, such as the type of construction, the substrate, type of lath and other factors. Proper installation includes staggering all joints and avoiding alignment that will create weaker joints. Do not lap sheets to save cuts. Lath ends must terminate on a framing member. If the framing member is missed it may cause a separation in the sheets and cracking could occur. Using small pieces may also cause cracking and should be avoided.

Inspect the total assembly to make sure all fasteners are in place, laps are level and true and accessories are properly installed, the job is ready to be plastered (scratch coated).

APPLYING CENTURION STONE

STARTING POINT

You may start your installation from the top down or bottom up. Working from the top down may help to avoid splashing or dripping mortar on previously applied stones. Care must be taken to avoid smearing the mortar. If this occurs it should be removed after mortar has dried to a crumbly state with a whisk broom.

Preparing mortar -Mix all ingredients thoroughly, to a firm moist consistency. If mortar is too wet, it will be messy to work with and weak in strength. If mortar is too dry, it will not provide a proper bond.
(SEE Detail I.O.1 for mix designs)

Mixing by Mechanical Mixer- Machine mixing time should be 3 to 5 minutes after all materials are together. For the best results mix ¾ of the water and ½ of the sand with the cementitious materials. Mix briefly and add the remaining parts. Top mix off by adding remaining water needed to obtain the proper slump, mortar should have an oatmeal-like consistency.

Mixing By Hand- Dry mix all materials together in a container (mud box) by raking material from end to end. Add ¾ of required water and mix thoroughly for batch uniformity. Add remaining water needed. No mortar should be used beyond a two and a half hour period after mixing.

Note: On the jointless or drystack patterns, a concrete bonding agent should be added to the mix to ensure additional bonding and adhesion strengths. When installing a jointless or drystack pattern, color can be added to the mortar to compliment the base color of the stone. Tinting of mortar will greatly enhance the finished appearance.

Scratch Coat Installation- The scratch coat is often confused with a 3 coat stucco system, the only comparison is the preparation of the wall. There are numerous mix designs used for the scratch coat and all may be good. The cement mixture is troweled over the lath using the hawk & trowel method to the desired thickness, making sure a full and level coat is applied around all lath accessory pieces. As material sets, a scoring tool is used to groove the surface to provide a key for the setting coat. After the scratch coat sets the stone veneer can be applied according to the manufactures installation instructions.

Some contractors use additives such as a calcium chloride to accelerate the scratch/setting coat mixes. These accelerators allow for shorter durations between the scratch coat and bedding coats and are generally used in colder climates. They save time but cause havoc on the galvanized coatings on lath and accessory pieces by accelerating corrosion. Tempering of the mix should also be avoided in very hot, dry, or windy conditions. Mix smaller batches which can be applied prior to the need for re-tempering. The additional water needed in tempering will reduce the strength of the bonding coat.

A bonding admixture may be added to the scratch/setting mixes, which greatly improves adhesion, cohesion, tensile, compressive and flexural strengths of cement setting materials. These additives pay for themselves in improved workability of the mix and improved bonding qualities.

Weather Conditions- In hot weather conditions it may become necessary to moisten the wall before applying the setting coat. Weather conditions may also require moistening the back of each stone. This is best done using a fine spray of water, or a wet brush. This step is important to prevent excessive absorption of moisture from the mortar. Application must be protected from freezing temperatures by sheltering the wall as mortar will not set up properly under such conditions Do not use anti-freeze compounds to lower the freezing point of mortar. The ambient temperature must be 40°F (4°C) or higher at the time of veneer application.

COACH TRIM/DRYER VENT P703

WEATHER RESISTANT (MOISTURE BARRIER)
EXT. SHEATHING
STUD WALL
STONE VENEER
MORTAR JOINT
MORTAR BED
METAL LATH
SCRATCH COAT
SET FIXTURE IN SEALANT
CENTURION TRIM P703

Specifications :

NOT TO SCALE

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

COACH TRIM/DRYER VENT P703

M.0.5

WATER BIBB TRIM P702

WEATHER RESISTANT (MOISTURE BARRIER)
EXT. SHEATHING
STUD WALL
STONE VENEER
MORTAR JOINT
MORTAR BED
METAL LATH
SCRATCH COAT
SET FIXTURE IN SEALANT
CENTURION TRIM P702

Specifications :

NOT TO SCALE

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

WATER BIBB TRIM P702

M.0.6

Specifications :

WEATHER RESISTIVE BARRIER :
EXTERIOR WOOD SURFACES ARE COVERED WITH A WEATHER RESISTIVE BARRIER CONFORMING TO SECTION 4-1 OF THE UNIFORM BUILDING CODE. BARRIER TO COMPLY WITH ASTM D-226 GRADE 'D' BUILDING PAPER, ASPHALT SATURATED ORGANIC FELT NO. 15 OR A HOUSE WRAP PRODUCT. OMIT BARRIER ON INTERIOR INSTALLATIONS.

METAL LATH :
A CORROSION RESISTANT EXPANDED METAL LATH WITH A MIN. RATING OF 250m PER SQ. YARD THAT COMPLIES WITH ASTM D-226. USE GALVANIZED LATH FOR EXTERIOR APPLICATIONS. BLACK METAL (NON-GALVANIZED) MAY BE USED FOR INTERIOR APPLICATIONS.

MORTAR MIX DESIGNS

GROUTED JOINT INSTALLATION				
MORTAR	PORTLAND	MASONRY	HYDRATED LIME	SAND
TYPE S	CEMENT OR	CEMENT	OR LIME PUTTY	
	BLEND	TYPE (N)		
-	2	-	1	5 TO 7
3	-	-	-	5 TO 7
-	-	1	-	1.5 TO 2.5
-	1	-	1	1.5 TO 2.5

MIX FOR DRY STACK SERIES

MORTAR	PORTLAND			SAND
TYPE S	CEMENT OR			
	BLEND			
-	3	#2 PARTS THINSET	-	7
-	2	BONDING AGENT	1 PART LIME	7
3	-	BONDING AGENT	-	7

MUST BE LATEX MODIFIED THINSET FOR EXTERIOR USE MEETING ANSI A 108.4

THE MORTAR BED CONSISTENCY MUST ALLOW MORTAR TO BE SQUEEZED OUT AROUND ALL EDGES OF THE VENEER UNIT TO ASSURE FULL BOND. ALL JOINTS MUST BE TOOLED

BONDING AGENT AND WATER (PRE-BLENDED 1:1)
CONCRETE BONDING AGENT : CONCRETE BONDING AGENTS SHALL MEET THE REQUIREMENTS OF ASTM C-1054 OR ASTM C-982.

WEATHER CONDITIONS :
IN HOT WEATHER CONDITIONS IT MAY BECOME NECESSARY TO MOISTEN THE WALL BEFORE APPLYING THE SETTING COAT. WEATHER CONDITIONS MAY ALSO REQUIRE MOISTENING THE BACK OF EACH STONE. THIS IS BEST DONE USING A FINE SPRAY OF WATER OR A NET BRUSH. THIS STEP IS IMPORTANT TO PREVENT EXCESSIVE ABSORPTION OF MOISTURE FROM THE MORTAR. APPLICATIONS MUST BE PROTECTED FROM FREEZING TEMPERATURES BY SHELTERING THE WALL AS MORTAR WILL NOT SET UP PROPERLY UNDER SUCH CONDITIONS. DO NOT USE ANTIFREEZE COMPOUNDS TO LOWER THE FREEZING POINT OF MORTAR.

APPLIED :
PER CENTURION STONE VENEER INSTALLATION PROCEDURES.

NOT TO SCALE

TRANSITION STONE TO SIDING

Specifications :

ON

WRAP PRODUCT, OMIT

COACH LIGHT TRIM P700/703

NOT TO SCALE

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

COACH LIGHT TRIM

M.0.4

#1 Setting Coat: Select mortar type to be used from mortar chart. Mix per instructions and apply in areas not to exceed 10 square feet or to areas that will not setup before stone is applied. Application method is the same as scratch coat. (DETAIL I.0.1)

#2 Setting the Stones: Completely cover the entire back surface of each stone. Press each stone into the mortar bed firmly. Apply pressure to the stone and wiggle the stone left and right to ensure a good bond. Using a margin trowel, strike off the excess mortar around the stone edges before placing the next piece. If stones back has dust, dirt or loose particles, brush off prior to applying mortar to stones back then proceed with application.

#3 Install Corners First: If installation requires corner pieces apply these first. Notice that the corners have a long and short leg. Alternate these in opposite directions as you apply them. (DETAIL M.0.1 & M.0.2)

#4 Installing Flats: After corner pieces, and window and door trim pieces are in place, install flats working toward center of wall. Cut and trim pieces as required to maintain joint consistency. Select and mix stones from different boxes throughout the installation to give a balance to shapes, sizes, color, thickness, and textures.

Shaping Stones- When trimming or cutting stones to fit you may use a mason's hammer, wide mouth nippers, or a mason's trowel edge. Straight cuts are best done using a small grinder or circular saw with a diamond or masonry saw blade. Cutting should be done out-side as dust will occur. Safety glasses and dust mask should always be worn when cutting a masonry product. To conceal cut or broken pieces cover the edges with mortar when grouting. Cut edges are installed so they are not visible. Broken stone or cut pieces are used in filling gaps between larger stones install the cut edges down when below eye level and up above eye level.

GROUT JOINTS

Joints vary in width depending on pattern being installed or customer preference. Install stone with uniform size grout joints. Avoid long straight lines. When installing patterns that are coursed or laid in a horizontal style, special attention should be given in keeping the pattern level and plumb. It is of particular importance to stagger the joint lines both vertically and horizontally.

Grout Joints- After stone is in place grouting may be necessary depending on stone pattern. Grouting is done with a grout bag. Fill a bag half full with mortar and insert into joint area. Squeeze bag while moving bag down joint line until area is filled. Avoid smearing mortar on surface of stone. If accidental smears occur allow mortar to dry and brush off with a whisk broom. Never use a wet brush or wire brush to remove a mortar stain.

When the mortar joints become firm (normally 30-60 min.) or thumb print dry they should be pointed up with a jointing tool. Rake out excessive mortar to obtain desired depth. While raking mortar joints, compact and seal mortar around each piece of stone. To obtain a professional looking finish maintain proper and even joints. Brush away all smears and mortar spots within a few hours of finishing. Never allow mortar to set up over night, as it will cause staining that will be almost impossible to remove.

It may be necessary to do touch up grouting on dry stack patterns such as void areas between stone pieces, and around windows, doors, and openings to conceal cut or broken edges. (See Centurion Stone drystack installation sheet for more details.)

Installing Hearth Stones- Hearthstones are not recommended or warranted for exterior use, or on a surface subject to foot traffic. Hearths at floor level or raised hearths are normal use for hearth pieces. We recommend when used in these installations the mortar joint area be filled to the top of each hearth piece.

Place strips of mortar approximately 3/4" thick and 3" wide where hearth pieces are to be placed. Place hearth stone on mortar bed and tap down to level and align. Place additional pieces and level to each other. If trimming is required, use same method as called for in the flats.

Do not cantilever a hearth piece out more than the stone below, usually 1 1/2". Grout under the hearth piece to fill the void between the hearth pieces and the flats, this gives direct support to the hearth piece.

27

4

Sealing - Sealing of hearth pieces is not necessary, but sealing will assist in cleaning of smoke and soot stains should they occur around fireplace opening. Sealing stone at grade lines to prevent mud stains is an option some masons prefer. Some sealers may deepen the stones color. It is recommended the sealer be tested on several loose pieces of stone to make sure the end result is acceptable. Only a good quality masonry sealer should be used, such as a penetrating breathable type.

GOOD BUILDING PRACTICES

Cleaning may never be necessary, however: if needed use a solution of granulated soap or detergent and water with a bristle brush. Rinse immediately with fresh water.

DO NOT ATTEMPT THE FOLLOWING!

Cleaning with a wire brush ~ High pressure power washing ~ Using acid or acid containing products

These methods will give you undesirable results!

Salts and De-icing Agents- Since all masonry and concrete products are vulnerable to damage incurred by salts and other chemicals used to remove snow and ice, Centurion Stone is NOT warranted against damage from these products. DO NOT use these products on areas immediately adjacent to a Centurion Stone application.

Pools and Fountains- Centurion Stone is not recommended to be installed below the water line in swimming pools or water fountains where chlorine or other chemicals are used. Discoloring may occur from these chemicals

Scuffing- Scuffing occurs when pieces of product rub against one another. Scuffing occurs in all natural stone and occasionally in Centurion Stone. Usually this enhances the appearance of the stone wall. If scuff marks need to be removed, clean stone as mentioned in the cleaning section and most marks will disappear.

Efflorescence- Efflorescence is a water-soluble salt in masonry walls or products. As water penetrates and dissolves these salts and evaporates a deposit is left on the masonry surface (usually white in color). It can occur on any masonry type surface (brick, stucco, concrete, natural stone, etc). It may even occur on Centurion Stone on rare occasions. To remove efflorescence you must allow the stone to dry thoroughly, and then scrub vigorously with a stiff brush with clean water and rinse thoroughly. For a more difficult problem, scrub with a solution of 1 part household vinegar to 5 parts water then rinse thoroughly.

Prepare Work Area - It is recommended to lay out a reasonable amount of stone pieces so you can see how the pattern looks assembled. Determine the desired pattern by mixing stones from several boxes. Plan for a variety and contrast in your overall design by using the small pieces next to large pieces, thick next to thin, textured next to smooth. Mix colors from several boxes to ensure a good blend of color shades.

Window Sill Installation - Window sills are available in several styles from Centurion Stone. Choose the style that best accents your job. Install sills per drawing to eliminate moisture from entering structure. (DETAIL G.0.1 to G.0.4)

Wainscot/Water Table Installation - Watertable pieces are available from Centurion Stone. The pieces allow you to trim and seal the stone wall in a wainscot installation or to seal the top of a stone area that meets another siding product. Install sills per drawing to help eliminate moisture from entering wall. (DETAIL H.0.1 to H.0.6)

Windows and Door Openings- If job requires accessories (keystones, sills, etc.), install these first around the openings leaving a joint area between the stone and frame. Fill joint area with caulking or masonry and tool so water will shed away from the joint area. (DETAIL M.0.4 TO M.0.6)

INSIDE CORNER DETAIL

STUD WALL
EXT. SHEATHING
SCRATCH COAT
METAL LATH TO BE CONT. - MIN. 16" FROM EACH CORNER
WEATHER-RESISTANT BARRIER TO BE CONT. - MIN. 16" FROM EACH CORNER
MORTAR JOINT
MORTAR BED
STONE VENEER
FULL MORTAR JOINT GROUT OR CAULK
STONE VENEER
VINYL 'J' CHANNEL SET BACK 1 1/2" FROM FACE OF SHEATHING
VINYL SIDING
FULL MORTAR JOINT, GROUT OR CAULK
BRICK

Specifications :

INSTALL THE CORNERS FIRST FOR EASIEST FITTING, PIECES SHOULD BE ALTERNATED IN OPPOSITE DIRECTIONS ON THE WALL CORNER.

DOUBLE LAP METAL LATH A MINIMUM 16 INCHES AROUND ALL INSIDE AND OUTSIDE CORNERS. DO NOT PULL LATH TO TIGHTLY AT CORNERS OR EDGES.

APPLIED :
PER CENTURION STONE VENEER INSTALLATION PROCEDURES.

LAP BARRIER 6" ON VERT. JOINTS AND MIN. OF 2" ON HORIZ. JOINT

LAP BARRIER AND LATH A MIN. OF 16" FROM INSIDE AND OUTSIDE CORNERS

WOOD CONSTRUCTION OR RIGID FOAM

NOT TO SCALE

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

INSIDE CORNER DETAIL

M.0.1

OUTSIDE CORNER DETAIL

STUD WALL
EXT. SHEATHING
SCRATCH COAT
METAL LATH TO BE CONT. - MIN. 16" FROM EACH CORNER
WEATHER-RESISTANT BARRIER TO BE CONT. - MIN. 16" FROM EACH CORNER
MORTAR JOINT
MORTAR BED
STONE VENEER
FULL MORTAR JOINT, GROUT OR CAULK
CORNER STONE
SET BACK 2 1/2" FROM FACE OF SHEATHING

Specifications :

INSTALL THE CORNERS FIRST FOR EASIEST FITTING, PIECES SHOULD BE ALTERNATED IN OPPOSITE DIRECTIONS ON THE WALL CORNER.

DOUBLE LAP METAL LATH A MINIMUM 16 INCHES AROUND ALL INSIDE AND OUTSIDE CORNERS. DO NOT PULL LATH TO TIGHTLY AT CORNERS OR EDGES.

APPLIED :
PER CENTURION STONE VENEER INSTALLATION PROCEDURES.

LAP BARRIER 6" ON VERT. JOINTS AND MIN. OF 2" ON HORIZ. JOINT

LAP BARRIER AND LATH A MIN. OF 16" FROM INSIDE AND OUTSIDE CORNERS

WOOD CONSTRUCTION OR RIGID FOAM

NOT TO SCALE

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

OUTSIDE CORNER DETAIL

M.0.2

CMU WALL	WALL CAP
8"	FLATCAP P555
	BEVELED CAP P571
12"	BEVELED CAP P572

OVER CLEAN MASONRY
NO SURFACE PREPARATION IS NECESSARY PROVIDED THE SURFACE IS CLEAN AND FREE OF CONTAMINATES SUCH AS DIRT, DUST, RELEASE AGENTS, SEALERS, AND FORM OILS.
NOTE : SEE CENTURION INSTALLATION PROCEDURES FOR REMOVING THESE CONTAMINATES.

CMU WALL / STONE ON ONE SIDE

Specifications :
MORTAR MIX DESIGNS

GROUTED JOINT INSTALLATION				
MORTAR	PORTLAND	MASONRY	HYDRATED LIME	SAND
TYPE S	CEMENT OR	CEMENT	OR LIME PUTTY	
	BLENDED	TYPE (N)		
-	2	-	1	5 TO 7
3	-	-	-	5 TO 7
-	-	1	-	1.5 TO 2.5
-	1	-	1	1.5 TO 2.5

MIX FOR DRY STACK SERIES

MORTAR	PORTLAND			SAND
TYPE S	CEMENT OR			
	BLENDED			
-	3	1/2 PARTS TRISERT	-	7
-	2	BONDING AGENT	1 PART LIME	7
3	-	BONDING AGENT	-	7

* MUST BE LATEX MODIFIED THINSET FOR EXTERIOR USE MEETING ANSI A 118.4

THE MORTAR BED CONSISTENCY MUST ALLOW MORTAR TO BE SQUEEZED OUT AROUND ALL EDGES OF THE VENEER UNIT TO ASSURE FULL BOND. ALL JOINTS MUST BE TOOLED

BONDING AGENT AND WATER (PRE-BLENDED 1:1)
CONCRETE BONDING AGENT - CONCRETE BONDING AGENTS SHALL MEET THE REQUIREMENTS OF ASTM C-1091 OR ASTM C-1092.

WEATHER CONDITIONS :
IN HOT WEATHER CONDITIONS IT MAY BECOME NECESSARY TO MOISTEN THE WALL BEFORE APPLYING THE SETTING COAT. WEATHER CONDITIONS MAY ALSO REQUIRE MOISTENING THE BACK OF EACH STONE. THIS IS BEST DONE USING A FINE SPRAY OF WATER OR A NET BRUSH. THIS STEP IS IMPORTANT TO PREVENT EXCESSIVE ABSORPTION OF MOISTURE FROM THE MORTAR. APPLICATIONS MUST BE PROTECTED FROM FREEZING TEMPERATURES BY SHELTERING THE WALL AS MORTAR WILL NOT SET UP PROPERLY UNDER SUCH CONDITIONS. DO NOT USE ANTIFREEZE COMPOUNDS TO LOWER THE FREEZING POINT OF MORTAR.

APPLIED :
PER CENTURION STONE VENEER INSTALLATION PROCEDURES.

NOT TO SCALE

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

CMU WALL / STONE ON ONE SIDE

K.0.1

Capping Off Exterior Walls- When stone is applied to exterior walls, or retaining walls or other surfaces where a cap is needed, it is recommended that Centurion Capstones or a poured-in-place concrete cap be used to provide adequate runoff protection. Centurion caps should extend 2” on each side of wall area. Centurion Stone corners are not recommended for capping walls. All retaining walls should be damp proofed at the fill side with weep holes and proper drainage prior to the stone being applied. (DETAIL K.0.1 TO K.0.2)

Chimney Caps All framed chimney chases must be capped with a one piece cap that extends 1” beyond the finished stones surface to eliminate water from entering the chase. (DETAIL A.0.1 to B.0.1)

Exterior Applications- On exterior applications the incorrect installation or absence of flashing, gutters, or downspouts may result in diversion of water runoff onto finished surfaces. Masonry and other building products may stain under these conditions and combined with severe freeze-thaw conditions may eventually cause surface damage. The application of Centurion Stone under these conditions is not recommended.

Cold and Foul Weather- Prior to your mortar setting up, protect your finished work from possible rainstorms or the threat of freezing during installations and curing. Use a plastic cover weighted down to protect wall areas. Mortar will not setup and cure properly under these conditions.

CONTACT YOUR LOCAL CENTURION STONE DEALER FOR OTHER INFORMATION THAT MAY BE NEEDED ON A PARTICULAR JOB INSTALLATION.

CALCULATING REQUIRED FOOTAGE

Determine the stone required by measuring the area to be covered

STEP 1: MEASURE and multiply the length of the wall by the height of each wall to be covered. This will give you the gross area square footage of flats.

STEP 2: MEASURE and calculate the total square footage of all openings (windows, doors, etc.). Deduct this footage from the gross footage amount. This is your net square feet requirement for flats. Add 2% back for trimming and shaping stones.

STEP 3: If outside corners are required, measure the total linear feet of corners needed. When figuring corners to flats, a good rule to remember is a linear foot of corners averages approximately ¾ of a foot of flat coverage. Subtract this footage from your flat footage, and this gives you the net feet of flats.

Placing Your Stone Order

- Order your net square feet of flats.
- Order you net linear feet of corners.
- Order any accessories needed by the piece (Hearthstones, Keystones, Window Trim, etc.)

You may wish to order extra stone and component pieces to allow for trimming and cutting. Extra stone may be required for special laying patterns outside the recommended ¾” mortar joint that most patterns are designed with.
Example: Tighter or zero mortar joints

CMU WALL	WALL CAP
8"	FLATCAP P555
	BEVELED CAP P571
12"	BEVELED CAP P572

OVER CLEAN MASONRY
NO SURFACE PREPARATION IS NECESSARY PROVIDED THE SURFACE IS CLEAN AND FREE OF CONTAMINATES SUCH AS DIRT, DUST, RELEASE AGENTS, SEALERS, AND FORM OILS.
NOTE : SEE CENTURION INSTALLATION PROCEDURES FOR REMOVING THESE CONTAMINATES.

CMU WALL / STONE ON BOTH SIDES

Specifications :
MORTAR MIX DESIGNS

GROUTED JOINT INSTALLATION				
MORTAR	PORTLAND	MASONRY	HYDRATED LIME	SAND
TYPE S	CEMENT OR	CEMENT	OR LIME PUTTY	
	BLENDED	TYPE (N)		
-	2	-	1	5 TO 7
3	-	-	-	5 TO 7
-	-	1	-	1.5 TO 2.5
-	1	-	1	1.5 TO 2.5

MIX FOR DRY STACK SERIES

MORTAR	PORTLAND			SAND
TYPE S	CEMENT OR			
	BLENDED			
-	3	1/2 PARTS TRISERT	-	7
-	2	BONDING AGENT	1 PART LIME	7
3	-	BONDING AGENT	-	7

* MUST BE LATEX MODIFIED THINSET FOR EXTERIOR USE MEETING ANSI A 118.4

THE MORTAR BED CONSISTENCY MUST ALLOW MORTAR TO BE SQUEEZED OUT AROUND ALL EDGES OF THE VENEER UNIT TO ASSURE FULL BOND. ALL JOINTS MUST BE TOOLED

BONDING AGENT AND WATER (PRE-BLENDED 1:1)
CONCRETE BONDING AGENT - CONCRETE BONDING AGENTS SHALL MEET THE REQUIREMENTS OF ASTM C-1091 OR ASTM C-1092.

WEATHER CONDITIONS :
IN HOT WEATHER CONDITIONS IT MAY BECOME NECESSARY TO MOISTEN THE WALL BEFORE APPLYING THE SETTING COAT. WEATHER CONDITIONS MAY ALSO REQUIRE MOISTENING THE BACK OF EACH STONE. THIS IS BEST DONE USING A FINE SPRAY OF WATER OR A NET BRUSH. THIS STEP IS IMPORTANT TO PREVENT EXCESSIVE ABSORPTION OF MOISTURE FROM THE MORTAR. APPLICATIONS MUST BE PROTECTED FROM FREEZING TEMPERATURES BY SHELTERING THE WALL AS MORTAR WILL NOT SET UP PROPERLY UNDER SUCH CONDITIONS. DO NOT USE ANTIFREEZE COMPOUNDS TO LOWER THE FREEZING POINT OF MORTAR.

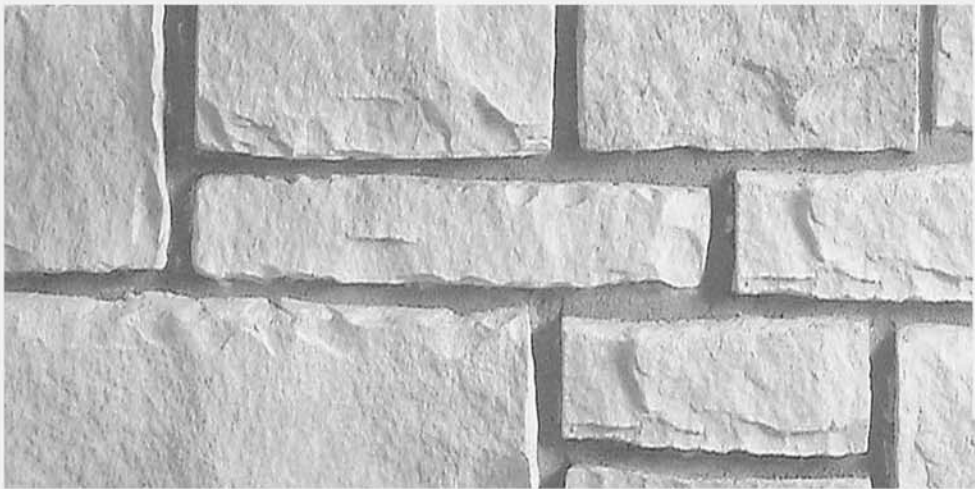
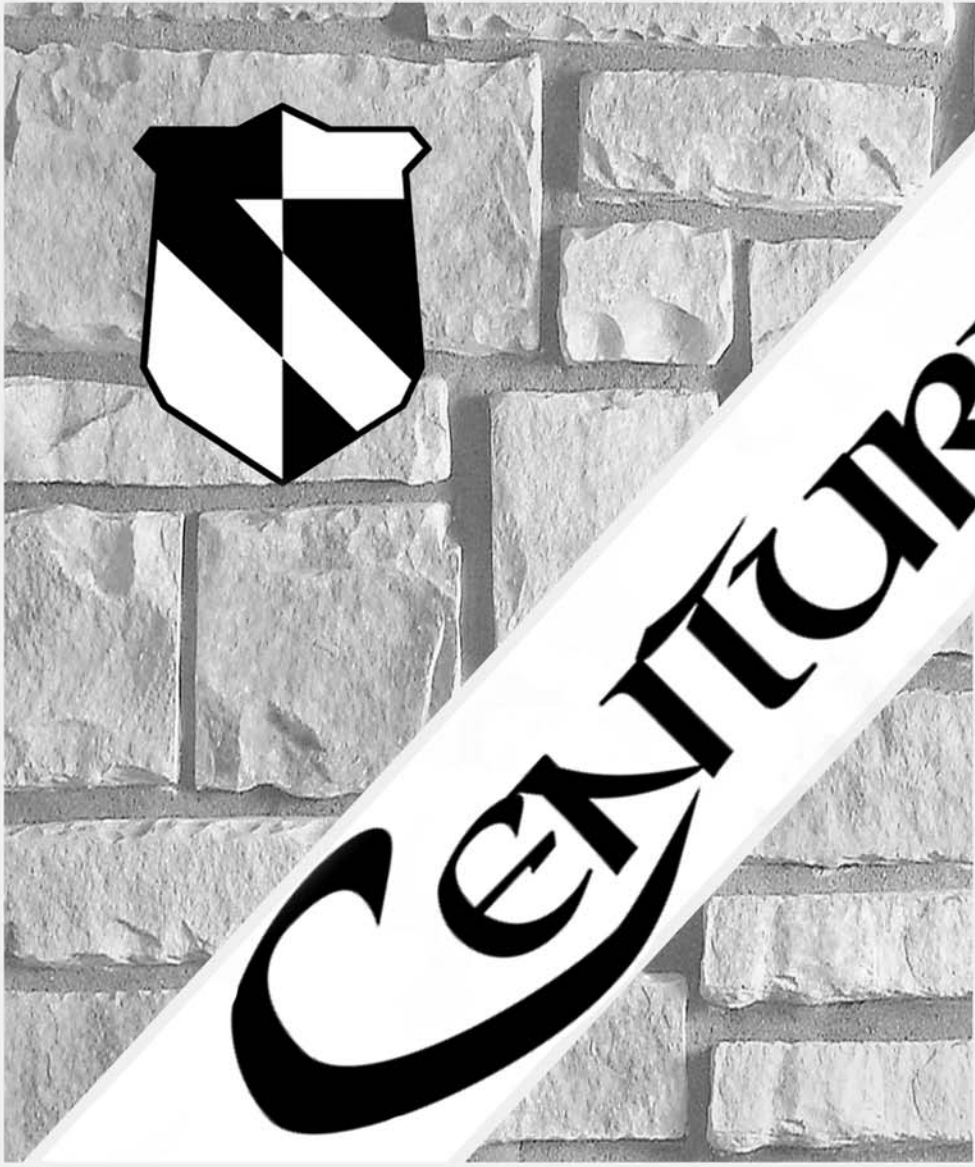

APPLIED :
PER CENTURION STONE VENEER INSTALLATION PROCEDURES.

NOT TO SCALE

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

CMU WALL / STONE ON BOTH SIDES

K.0.2

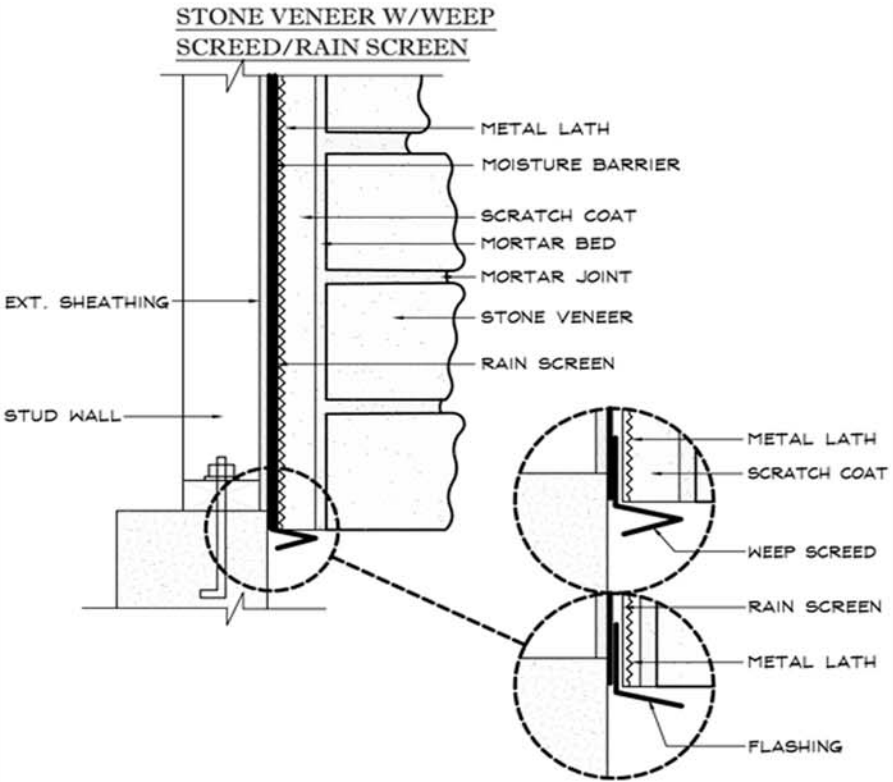


Centurion®

drawings

STONE DETAILS

STONE VENEER W/WEEP SCREED/RAIN SCREEN




Specifications:

WEEP SCREED
INSTALL FOUNDATION WEEP SCREED PER MANUFACTURE'S INSTRUCTIONS. WEEP SCREED SHALL BE A MINIMUM NO. 26 GAUGE GALV. METAL CORROSION RESISTANT SCREED WITH A MINIMUM VERTICAL ATTACHMENT OF 3 1/2". HOLES IN SCREED SHOULD BE A MINIMUM OF 3/16" SPACED ON MAXIMUM 33" CENTERS. WEEP SCREED SHALL BE PLACED A MINIMUM OF 4" ABOVE EARTH OR 2" ABOVE PAVED AREA. SCREED SHOULD BE THE TYPE THAT ALLOWS TRAPPED WATER TO DRAIN TO THE EXTERIOR OF THE BUILDING.

APPLIED:
PER CENTURION STONE VENEER INSTALLATION PROCEDURES.

NOT TO SCALE

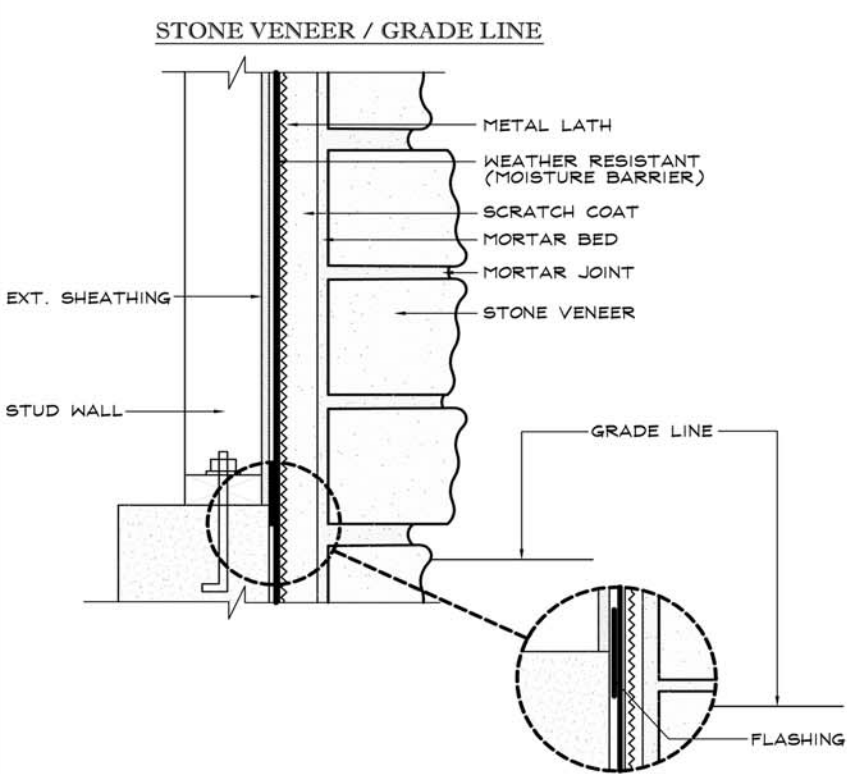


Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

STONE VENEER W/WEEP SCREED/RAIN SCREEN

J.0.1

STONE VENEER / GRADE LINE



Specifications:

STONE VENEER MAY BE APPLIED TO OR BELOW GRADE PROVIDING IT MEETS LOCAL BUILDING CODE REQUIREMENTS. IN AREAS WHERE GROUND HEAVING OCCURS, IT IS NOT RECOMMENDED.

WEATHER RESISTIVE BARRIER:
EXTERIOR WOOD SURFACES ARE COVERED WITH A WEATHER RESISTIVE BARRIER CONFORMING TO SECTION 4-1 OF THE UNIFORM BUILDING CODE. BARRIER TO COMPLY WITH ASTM D-226 GRADE 17 BUILDING PAPER, ASPHALT SATURATED ORGANIC FELT NO. 15 OR A HOUSE WRAP PRODUCT. ONT BARRIER ON INTERIOR INSTALLATIONS.

METAL LATH:
A CORROSION RESISTANT EXPANDED METAL LATH WITH A MIN. RATING OF 250k PER SQ. YARD THAT COMPLIES WITH ASTM D-226. USE GALVANIZED LATH FOR EXTERIOR APPLICATIONS. BLACK METAL (NON-GALVANIZED) MAY BE USED FOR INTERIOR APPLICATIONS.

MORTAR MIX DESIGNS

GROUTED JOINT INSTALLATION				
MORTAR TYPE S	PORTLAND CEMENT OR BLENDED	MASONRY CEMENT TYPE (N)	HYDRATED LIME OR LIME PUTTY	SAND
-	2	-	1	5 TO 7
3	-	-	-	5 TO 7
-	-	1	-	1.5 TO 2.5
-	1	-	1	1.5 TO 2.5

MIX FOR DRY STACK SERIES

MORTAR TYPE S	PORTLAND CEMENT OR BLENDED	SAND
-	3	7
-	2	7
3	BONDING AGENT	7

#1 MUST BE LATEX MODIFIED THINSET FOR EXTERIOR USE MEETING ANSI A 118.4


THE MORTAR BED CONSISTENCY MUST ALLOW MORTAR TO BE SQUEEZED OUT AROUND ALL EDGES OF THE VENEER UNIT TO ASSURE FULL BOND. ALL JOINTS MUST BE TOOLED

BONDING AGENT AND WATER (PRE-BLENDED 1:1)
CONCRETE BONDING AGENT - CONCRETE BONDING AGENTS SHALL MEET THE REQUIREMENTS OF ASTM C-1091 OR ASTM C-1092.

WEATHER CONDITIONS:
IN HOT WEATHER CONDITIONS IT MAY BE NECESSARY TO MOISTEN THE WALL BEFORE APPLYING THE SETTING COAT. WEATHER CONDITIONS MAY ALSO REQUIRE MOISTENING THE BACK OF EACH STONE. THIS IS BEST DONE USING A FINE SPRAY OF WATER OR A NET BRUSH. THIS STEP IS IMPORTANT TO PREVENT EXCESSIVE ABSORPTION OF MOISTURE FROM THE MORTAR. APPLICATIONS MUST BE PROTECTED FROM FREEZING TEMPERATURES BY SHELTERING THE WALL AS MORTAR WILL NOT SET UP PROPERLY UNDER SUCH CONDITIONS. DO NOT USE ANTIFREEZE COMPOUNDS TO LOWER THE FREEZING POINT OF MORTAR.

APPLIED:
PER CENTURION STONE VENEER INSTALLATION PROCEDURES.

NOT TO SCALE



Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

STONE VENEER / GRADE LINE

J.0.2

OVER CLEAN MASONRY
NO SURFACE PREPARATION IS NECESSARY
PROVIDED THE SURFACE IS CLEAN AND
FREE OF CONTAMINATES SUCH AS DIRT,
DUST, RELEASE AGENTS, SEALERS, AND
FORM OILS.
NOTE : SEE CENTURION INSTALLATION
PROCEDURES FOR REMOVING THESE
CONTAMINATES.

STONE OVER CLEAN CMU WALLS

Specifications :

MORTAR MIX DESIGNS

GROUTED JOINT INSTALLATION				
MORTAR TYPE S	PORTLAND CEMENT OR	MASONRY CEMENT	HYDRATED LIME OR LIME PUTTY	SAND
-	2	-	1	5 TO 7
3	-	-	-	5 TO 7
-	-	1	-	1.5 TO 2.5
-	1	-	1	1.5 TO 2.5

MIX FOR DRY STACK SERIES

MORTAR TYPE S	PORTLAND CEMENT OR	MASONRY CEMENT	HYDRATED LIME OR LIME PUTTY	SAND
-	3	1/2 PARTS THINSET	-	7
-	2	BONDING AGENT	1 PART LIME	7
3	-	BONDING AGENT	-	7

* MUST BE LATEX MODIFIED THINSET FOR EXTERIOR USE MEETING ANSI A 118.4

THE MORTAR BED CONSISTENCY MUST ALLOW MORTAR TO BE SQUEEZED OUT AROUND ALL EDGES OF THE VENEER UNIT TO ASSURE FULL BOND. ALL JOINTS MUST BE TOOLED

BONDING AGENT AND WATER (PRE-BLENDED 1:1)
CONCRETE BONDING AGENT : CONCRETE BONDING AGENTS SHALL MEET THE REQUIREMENTS OF ASTM C-1094 OR ASTM C-982.

WEATHER CONDITIONS :
IN HOT WEATHER CONDITIONS IT MAY BECOME NECESSARY TO MOISTEN THE WALL BEFORE APPLYING THE SETTING COAT. WEATHER CONDITIONS MAY ALSO REQUIRE MOISTENING THE BACK OF EACH STONE. THIS IS BEST DONE USING A FINE SPRAY OF WATER OR A NET BRUSH. THIS STEP IS IMPORTANT TO PREVENT EXCESSIVE ABSORPTION OF MOISTURE FROM THE MORTAR. APPLICATIONS MUST BE PROTECTED FROM FREEZING TEMPERATURES BY SHELTERING THE WALL AS MORTAR WILL NOT SET UP PROPERLY UNDER SUCH CONDITIONS. DO NOT USE ANTIFREEZE COMPOUNDS TO LOWER THE FREEZING POINT OF MORTAR.

APPLIED :
PER CENTURION STONE VENEER INSTALLATION PROCEDURES.

NOT TO SCALE

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

STONE OVER CLEAN CMU WALLS

I.0.7

OVER CLEAN MASONRY
NO SURFACE PREPARATION IS NECESSARY
PROVIDED THE SURFACE IS CLEAN AND
FREE OF CONTAMINATES SUCH AS DIRT,
DUST, RELEASE AGENTS, SEALERS, AND
FORM OILS.
NOTE : EVEN AFTER CLEANING OR
SANDBLASTING, RELEASE AGENTS,
SEALERS, OILS AND ANTI-BONDING
MATERIALS ARE OFTEN NOT DETECTABLE.
IT IS HIGHLY RECOMMENDED TO
FOLLOW SPECIFICATIONS FOR LATH
AND SCRATCH COAT PROCEDURES.

STONE OVER PRECAST AND TILT UP WALLS

Specifications : SEE LATH APPLICATION INSTRUCTIONS

MORTAR MIX DESIGNS

GROUTED JOINT INSTALLATION				
MORTAR TYPE S	PORTLAND CEMENT OR	MASONRY CEMENT	HYDRATED LIME OR LIME PUTTY	SAND
-	2	-	1	5 TO 7
3	-	-	-	5 TO 7
-	-	1	-	1.5 TO 2.5
-	1	-	1	1.5 TO 2.5

MIX FOR DRY STACK SERIES

MORTAR TYPE S	PORTLAND CEMENT OR	MASONRY CEMENT	HYDRATED LIME OR LIME PUTTY	SAND
-	3	1/2 PARTS THINSET	-	7
-	2	BONDING AGENT	1 PART LIME	7
3	-	BONDING AGENT	-	7

* MUST BE LATEX MODIFIED THINSET FOR EXTERIOR USE MEETING ANSI A 118.4

THE MORTAR BED CONSISTENCY MUST ALLOW MORTAR TO BE SQUEEZED OUT AROUND ALL EDGES OF THE VENEER UNIT TO ASSURE FULL BOND. ALL JOINTS MUST BE TOOLED

BONDING AGENT AND WATER (PRE-BLENDED 1:1)
CONCRETE BONDING AGENT : CONCRETE BONDING AGENTS SHALL MEET THE REQUIREMENTS OF ASTM C-1094 OR ASTM C-982.

WEATHER CONDITIONS :
IN HOT WEATHER CONDITIONS IT MAY BECOME NECESSARY TO MOISTEN THE WALL BEFORE APPLYING THE SETTING COAT. WEATHER CONDITIONS MAY ALSO REQUIRE MOISTENING THE BACK OF EACH STONE. THIS IS BEST DONE USING A FINE SPRAY OF WATER OR A NET BRUSH. THIS STEP IS IMPORTANT TO PREVENT EXCESSIVE ABSORPTION OF MOISTURE FROM THE MORTAR. APPLICATIONS MUST BE PROTECTED FROM FREEZING TEMPERATURES BY SHELTERING THE WALL AS MORTAR WILL NOT SET UP PROPERLY UNDER SUCH CONDITIONS. DO NOT USE ANTIFREEZE COMPOUNDS TO LOWER THE FREEZING POINT OF MORTAR.

APPLIED :
PER CENTURION STONE VENEER INSTALLATION PROCEDURES.

NOT TO SCALE

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

**STONE OVER PRECAST AND
TILT UP WALLS**

I.0.8

DETAILS	
A.0.1	CHIMNEY CAP DETAILS
B.0.1	CHIMNEY SADDLE DETAILS
C.0.1	STONE TRANSITION TO ROOF
C.0.2	ROOF-WALL KICKOUT FLASHING
D.0.1	STANDARD EAVE DETAIL
D.0.2	EAVE DETAIL W/ FREEZE BOARD
E.0.1	STONE TO WINDOW/DOOR HEADER
E.0.2	FLASHING AROUND CURVED WINDOW PERIMETER
E.0.3	BACKER ROD AND SEALANT
F.0.1	STONE TO WINDOW JAMB
F.0.2	STONE TO DOOR JAMB
F.0.3	ADHESIVE MEMBRANE FLASHING
G.0.1	STONE WINDOW SILL TO WOOD STUD
G.0.2	STONE WINDOW SILL TO METAL STUD
G.0.3	WINDOW SILL FLASHING
G.0.4	DOOR SILL FLASHING
H.0.1	STONE TO BRICK WAINSCOT
H.0.2	STONE WAINSCOT TRANSITION
H.0.3	STONE TO WOOD TRIM
H.0.4	WATERTABLE SET WITH ANGLE SUPPORT
H.0.5	WATERTABLE SET WITH MASONRY
H.0.6	WATERTABLE SET INTO BRICK
I.0.1	STONE OVER SHEATHED WALL
I.0.2	STONE OVER RIGID INSULATION WALL
I.0.3	STONE OVER OPEN STUD
I.0.4	STONE OVER METAL FRAMING
I.0.5	METAL FRAMING RIGID INSULATION
I.0.6	OPEN STUD FRAMING METAL STUD
I.0.7	STONE OVER CLEAN CMU WALLS
I.0.8	STONE OVER S.W. PRECAST WALLS
J.0.1	STONE W/ WEEP SCREED
J.0.2	STONE VENEER / GRADE LINE
K.0.1	CMU WALL / STONE ON ONE SIDE
K.0.2	CMU WALL / STONE BOTH SIDES
M.0.1	INSIDE CORNER DETAIL
M.0.2	OUTSIDE CORNER DETAIL
M.0.3	TRANSITION STONE TO SIDING
M.0.4	COACH LIGHT TRIM
M.0.5	COACH TRIM/DRYER VENT
M.0.6	WATER BIBB TRIM
M.0.7	COLUMN CONSTRUCTION
M.0.8	EXPANSION JOINT
M.0.9	CASTLEROCK PATTERN (070)
M.0.10	BILTMORE PATTERN (400)

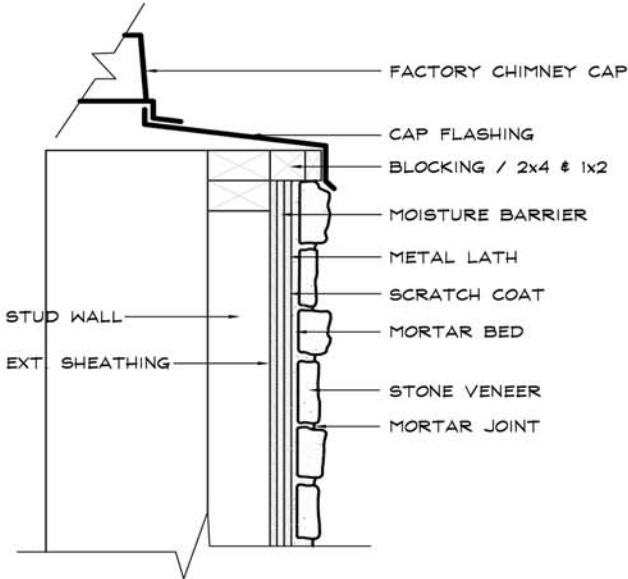
BUILDING CODES
CODE REQUIREMENTS VARY FROM AREA TO AREA. CHECK CODES IN YOUR AREA ON SPECIAL REQUIREMENTS THAT MAY AFFECT YOUR INSTALLATION.

NOTE : THE FOLLOWING DIAGRAMS ARE IDEAS FOR FLASHING AND TERMINATING STONE VENEER. THEY MAY NOT APPLY TO ALL DESIGNS AND MAY REQUIRE CHANGES TO MEET LOCAL CODES OR A PARTICULAR DESIGN REQUIREMENT. CENTURION ACCEPTS NO RESPONSIBILITY OR LIABILITY FOR THE USE OF THESE DETAILS.

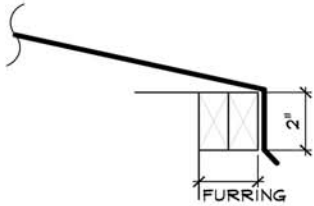
Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

DETAIL DRAWINGS

Specifications :



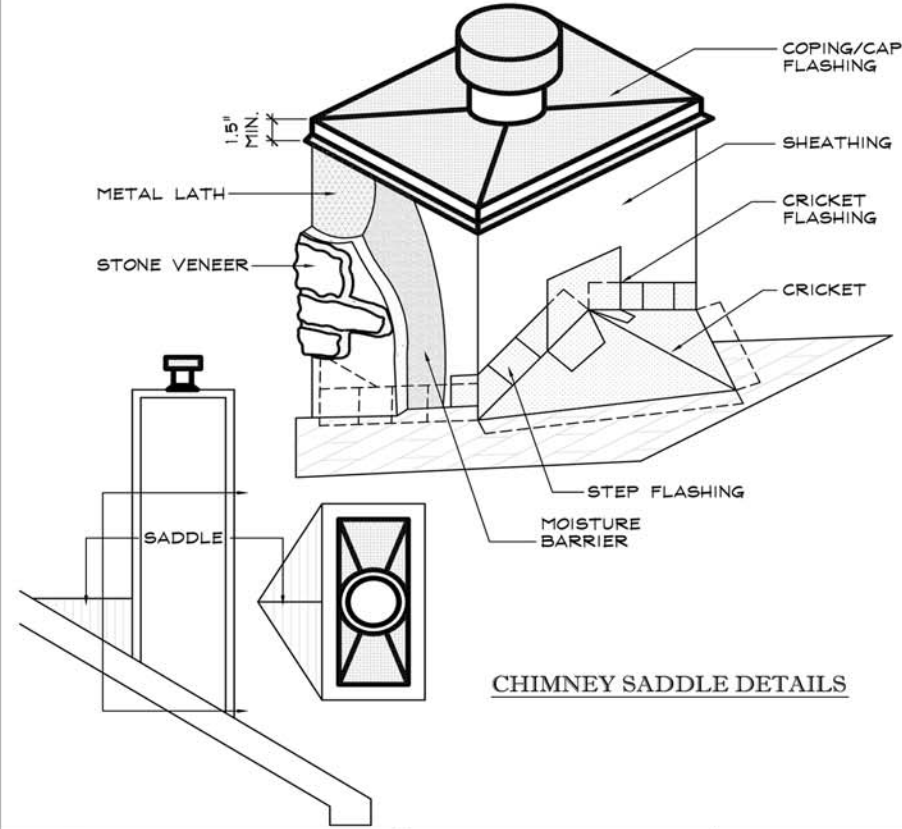
CHIMNEY CAP DETAIL
STONE TO CHIMNEY CAP



METAL FLASHING
CHIMNEY CAP

NOT TO SCALE

Specifications :

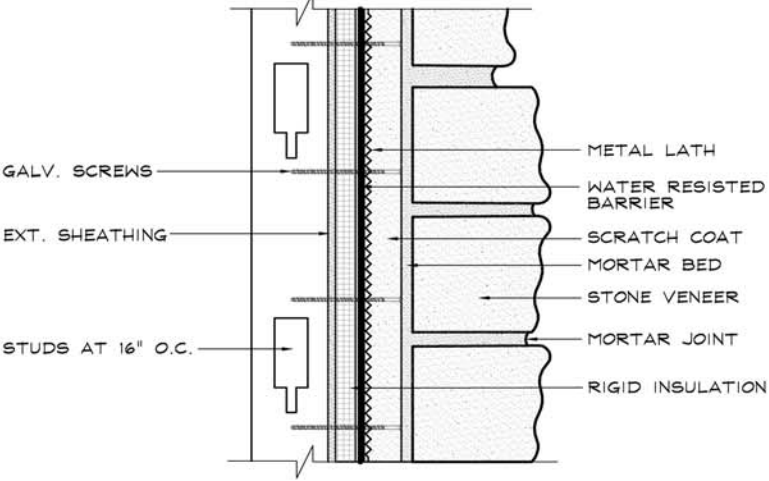


CHIMNEY SADDLE DETAILS

NOT TO SCALE

METAL FRAMING W/ RIGID INSULATION

OVER RIGID INSULATION BOARD
PREPARE SURFACE SAME AS WOOD FRAME CONSTRUCTION WITH SHEATHING WITH THE FOLLOWING EXCEPTIONS : THE SCREWS SHOULD BE ON 4" CENTERS VERTICALLY AND 16" ON CENTERS HORIZONTALLY WITH 1" MINIMUM PENETRATING THE STUD



Specifications :
WEATHER RESISTIVE BARRIER :
EXTERIOR WOOD SURFACES ARE COVERED WITH A WEATHER RESISTIVE BARRIER CONFORMING TO SECTION 14-1 OF THE UNIFORM BUILDING CODE. BARRIER TO COMPLY WITH ASTM D-226 GRADE 17 BUILDING PAPER, ASPHALT SATURATED ORGANIC FELT NO. 8 OR A HOUSE WRAP PRODUCT. OMIT BARRIER ON INTERIOR INSTALLATIONS.
METAL LATH :
A CORROSION RESISTANT EXPANDED METAL LATH WITH A MIN. RATING OF 250lb. PER SQ. YARD THAT COMPLIES WITH ASTM D-226. USE GALVANIZED LATH FOR EXTERIOR APPLICATIONS. BLACK METAL (NON-GALVANIZED) MAY BE USED FOR INTERIOR APPLICATIONS.

MORTAR MIX DESIGNS

GROUTED JOINT INSTALLATION				
MORTAR TYPE S	PORTLAND CEMENT OR	MASONRY CEMENT	HYDRATED LIME OR LIME PUTTY	SAND
	CEMENT	CEMENT		
	2	-	1	5 TO 7
3	-	-	-	5 TO 7
-	-	1	-	15 TO 25
-	1	-	1	15 TO 25

MIX FOR DRY STACK SERIES

MORTAR TYPE S	PORTLAND CEMENT OR	MASONRY CEMENT	HYDRATED LIME OR LIME PUTTY	SAND
	CEMENT	CEMENT		
	3	1/2 PARTS THINSET	-	7
-	2	BONDING AGENT	1 PART LIME	7
3	-	BONDING AGENT	-	7

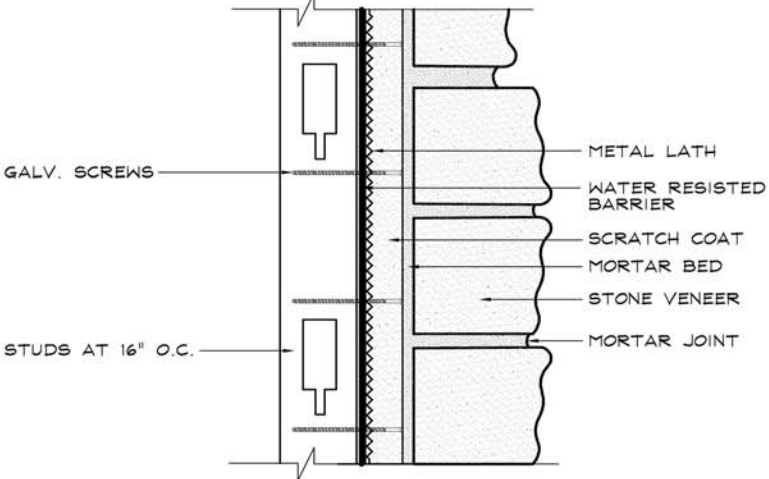
* MUST BE LATEX MODIFIED THINSET FOR EXTERIOR USE MEETING ANSI A 118.4

THE MORTAR BED CONSISTENCY MUST ALLOW MORTAR TO BE SQUEEZED OUT AROUND ALL EDGES OF THE VENEER UNIT TO ASSURE FULL BOND. ALL JOINTS MUST BE TOOLED
BONDING AGENT AND WATER (PRE-BLENDED !!!)
CONCRETE BONDING AGENT : CONCRETE BONDING AGENTS SHALL MEET THE REQUIREMENTS OF ASTM C-1094 OR ASTM C-892.
WEATHER CONDITIONS :
IN HOT WEATHER CONDITIONS IT MAY BECOME NECESSARY TO MOISTEN THE WALL BEFORE APPLYING THE SETTING COAT. WEATHER CONDITIONS MAY ALSO REQUIRE POSTING THE BACK OF EACH STONE. THIS IS BEST DONE USING A FINE SPRAY OF WATER OR A NET BRUSH. THIS STEP IS IMPORTANT TO PREVENT EXCESSIVE ABSORPTION OF MOISTURE FROM THE MORTAR. APPLICATIONS MUST BE PROTECTED FROM FREEZING TEMPERATURES BY SHELTERING THE WALL AS MORTAR WILL NOT SET UP PROPERLY UNDER SUCH CONDITIONS. DO NOT USE ANTIFREEZE COMPOUNDS TO LOWER THE FREEZING POINT OF MORTAR.
APPLIED :
PER CENTURION STONE VENEER INSTALLATION PROCEDURES.

NOT TO SCALE

METAL FRAME CONSTRUCTION
WITHOUT SHEATHING

OVER OPEN STUDS
APPLY PAPER BACKED GALVANIZED 3.4lbs. 3/8" RIB EXPANDED METAL LATH TO THE STUDS USING GALVANIZED SCREWS EVERY 6" VERTICALLY ON STUD CENTERS WITH A MIN. 1" PENETRATION. OVERLAP LATH SIDES NO LESS THAN 1/2" AND ENDS NO LESS THAN 1". FOR METAL STUDS USE CORROSION RESISTANT SELF-TAPPING SCREWS WITH A 3/8" HEAD THAT PROVIDES A MIN. 3/8" PENETRATION BEYOND THE INSIDE METAL SURFACE. APPLY 1/2" SCRATCH COAT OF MORTAR OVER LATH AND ALLOW TO SET FOR 48 HOURS..



Specifications :
WEATHER RESISTIVE BARRIER :
EXTERIOR WOOD SURFACES ARE COVERED WITH A WEATHER RESISTIVE BARRIER CONFORMING TO SECTION 14-1 OF THE UNIFORM BUILDING CODE. BARRIER TO COMPLY WITH ASTM D-226 GRADE 17 BUILDING PAPER, ASPHALT SATURATED ORGANIC FELT NO. 8 OR A HOUSE WRAP PRODUCT. OMIT BARRIER ON INTERIOR INSTALLATIONS.
METAL LATH :
A CORROSION RESISTANT EXPANDED METAL LATH WITH A MIN. RATING OF 250lb. PER SQ. YARD THAT COMPLIES WITH ASTM D-226. USE GALVANIZED LATH FOR EXTERIOR APPLICATIONS. BLACK METAL (NON-GALVANIZED) MAY BE USED FOR INTERIOR APPLICATIONS.

MORTAR MIX DESIGNS

GROUTED JOINT INSTALLATION				
MORTAR TYPE S	PORTLAND CEMENT OR	MASONRY CEMENT	HYDRATED LIME OR LIME PUTTY	SAND
	CEMENT	CEMENT		
	2	-	1	5 TO 7
3	-	-	-	5 TO 7
-	-	1	-	15 TO 25
-	1	-	1	15 TO 25

MIX FOR DRY STACK SERIES

MORTAR TYPE S	PORTLAND CEMENT OR	MASONRY CEMENT	HYDRATED LIME OR LIME PUTTY	SAND
	CEMENT	CEMENT		
	3	1/2 PARTS THINSET	-	7
-	2	BONDING AGENT	1 PART LIME	7
3	-	BONDING AGENT	-	7

* MUST BE LATEX MODIFIED THINSET FOR EXTERIOR USE MEETING ANSI A 118.4

THE MORTAR BED CONSISTENCY MUST ALLOW MORTAR TO BE SQUEEZED OUT AROUND ALL EDGES OF THE VENEER UNIT TO ASSURE FULL BOND. ALL JOINTS MUST BE TOOLED
BONDING AGENT AND WATER (PRE-BLENDED !!!)
CONCRETE BONDING AGENT : CONCRETE BONDING AGENTS SHALL MEET THE REQUIREMENTS OF ASTM C-1094 OR ASTM C-892.
WEATHER CONDITIONS :
IN HOT WEATHER CONDITIONS IT MAY BECOME NECESSARY TO MOISTEN THE WALL BEFORE APPLYING THE SETTING COAT. WEATHER CONDITIONS MAY ALSO REQUIRE POSTING THE BACK OF EACH STONE. THIS IS BEST DONE USING A FINE SPRAY OF WATER OR A NET BRUSH. THIS STEP IS IMPORTANT TO PREVENT EXCESSIVE ABSORPTION OF MOISTURE FROM THE MORTAR. APPLICATIONS MUST BE PROTECTED FROM FREEZING TEMPERATURES BY SHELTERING THE WALL AS MORTAR WILL NOT SET UP PROPERLY UNDER SUCH CONDITIONS. DO NOT USE ANTIFREEZE COMPOUNDS TO LOWER THE FREEZING POINT OF MORTAR.
APPLIED :
PER CENTURION STONE VENEER INSTALLATION PROCEDURES.

NOT TO SCALE

WOOD FRAME CONSTRUCTION
OPEN STUDS, NO SHEATHING

OVER OPEN STUDS
APPLY PAPER BACKED GALVANIZED 3.4lbs. 3/8" RIB EXPANDED METAL LATH TO SECTION 14-1 OF THE UNIFORM BUILDING CODE. BARRIER TO COMPLY WITH ASTM D-226 GRADE 'D' BUILDING PAPER, ASPHALT SATURATED ORGANIC FELT NO. 15 OR A HOUSE WRAP PRODUCT OMIT BARRIER ON INTERIOR INSTALLATIONS.

METAL LATH:
A CORROSION RESISTANT EXPANDED METAL LATH WITH A MIN. RATING OF 25lbs. PER SQ. YARD THAT COMPLIES WITH ASTM D-226. USE GALVANIZED LATH FOR EXTERIOR APPLICATIONS. BLACK METAL (NON-GALVANIZED) MAY BE USED FOR INTERIOR APPLICATIONS.

MORTAR MIX DESIGNS

GROUTED JOINT INSTALLATION				
MORTAR TYPE	PORTLAND CEMENT OR BLENDED	MASONRY CEMENT OR TYPE (N)	HYDRATED LIME OR LIME PUTTY	SAND
-	2	-	1	5 TO 7
3	-	-	-	5 TO 7
-	-	1	-	1.5 TO 2.5
-	1	-	1	1.5 TO 2.5

MIX FOR DRY STACK SERIES

MORTAR TYPE	PORTLAND CEMENT OR BLENDED			SAND
-	3	#1 PARTS THINSET	-	7
-	2	BONDING AGENT	1 PART LIME	7
3	-	BONDING AGENT	-	7

MUST BE LATEX MODIFIED THINSET FOR EXTERIOR USE MEETING ANSI A 118.4

THE MORTAR BED CONSISTENCY MUST ALLOW MORTAR TO BE SQUEEZED OUT AROUND ALL EDGES OF THE VENEER UNIT TO ASSURE FULL BOND. ALL JOINTS MUST BE TOOLED

BONDING AGENT AND WATER (PRE-BLENDED 1:1)
CONCRETE BONDING AGENT - CONCRETE BONDING AGENTS SHALL MEET THE REQUIREMENTS OF ASTM C-1094 OR ASTM C-982.

WEATHER CONDITIONS:
IN HOT WEATHER CONDITIONS IT MAY BECOME NECESSARY TO MOISTEN THE WALL BEFORE APPLYING THE SETTING COAT. WEATHER CONDITIONS MAY ALSO REQUIRE MOISTENING THE BACK OF EACH STONE. THIS IS BEST DONE USING A FINE SPRAY OF WATER OR A NET BRUSH. THIS STEP IS IMPORTANT TO PREVENT EXCESSIVE ABSORPTION OF MOISTURE FROM THE MORTAR. APPLICATIONS MUST BE PROTECTED FROM FREEZING TEMPERATURES BY SHELTERING THE WALL AS MORTAR WILL NOT SET UP PROPERLY UNDER SUCH CONDITIONS. DO NOT USE ANTIFREEZE COMPOUNDS TO LOWER THE FREEZING POINT OF MORTAR.

APPLIED:
PER CENTURION STONE VENEER INSTALLATION PROCEDURES.

NOT TO SCALE

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

STONE OVER OPEN STUD

I.0.3

STONE TRANSITION TO ROOF

STUD WALL

MOISTURE BARRIER

METAL LATH

SCRATCH COAT

MORTAR BED

STONE VENEER

MORTAR JOINT

EXT. SHEATHING

ROOF SHINGLES

ROOF DECKING

ROOF RAFTER

MOISTURE BARRIER

STEP FLASHING

1" ABOVE FINISH ROOF

METAL COUNTER FLASHING

METAL FLASHING

P.T. 2x4 BLOCKING

METAL COUNTER FLASHING

STEP FLASHING

P.T. 2x4 BLOCKING

STEP FLASHING

5 1/2"

2 1/2"

COUNTER FLASHING

2 1/2"

2 1/2"

METAL FLASHING

1/2"

5 1/2"

1/2"

STONE TRANSITION TO ROOF

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

STONE TRANSITION TO ROOF

C.0.1

STONE OVER METAL FRAMING
(RIGID SHEATHING)

OVER RIGID INSULATION BOARD
PREPARE SURFACE SAME AS WOOD FRAME CONSTRUCTION WITH SHEATHING WITH THE FOLLOWING EXCEPTIONS: THE SCREWS SHOULD BE ON 4" CENTERS VERTICALLY AND 16" ON CENTERS HORIZONTALLY WITH 1" MINIMUM PENETRATING THE STUD

GALV. SCREWS

METAL LATH

WATER RESISTED BARRIER

SCRATCH COAT

MORTAR BED

STONE VENEER

MORTAR JOINT

EXT. SHEATHING

STUDS AT 16" O.C.

Specifications:

WEATHER RESISTIVE BARRIER:
EXTERIOR WOOD SURFACES ARE COVERED WITH A WEATHER RESISTIVE BARRIER CONFORMING TO SECTION 14-1 OF THE UNIFORM BUILDING CODE. BARRIER TO COMPLY WITH ASTM D-226 GRADE 'D' BUILDING PAPER, ASPHALT SATURATED ORGANIC FELT NO. 15 OR A HOUSE WRAP PRODUCT OMIT BARRIER ON INTERIOR INSTALLATIONS.

METAL LATH:
A CORROSION RESISTANT EXPANDED METAL LATH WITH A MIN. RATING OF 25lbs. PER SQ. YARD THAT COMPLIES WITH ASTM D-226. USE GALVANIZED LATH FOR EXTERIOR APPLICATIONS. BLACK METAL (NON-GALVANIZED) MAY BE USED FOR INTERIOR APPLICATIONS.

MORTAR MIX DESIGNS

GROUTED JOINT INSTALLATION				
MORTAR TYPE	PORTLAND CEMENT OR BLENDED	MASONRY CEMENT OR TYPE (N)	HYDRATED LIME OR LIME PUTTY	SAND
-	2	-	1	5 TO 7
3	-	-	-	5 TO 7
-	-	1	-	1.5 TO 2.5
-	1	-	1	1.5 TO 2.5

MIX FOR DRY STACK SERIES

MORTAR TYPE	PORTLAND CEMENT OR BLENDED			SAND
-	3	#1 PARTS THINSET	-	7
-	2	BONDING AGENT	1 PART LIME	7
3	-	BONDING AGENT	-	7

MUST BE LATEX MODIFIED THINSET FOR EXTERIOR USE MEETING ANSI A 118.4

THE MORTAR BED CONSISTENCY MUST ALLOW MORTAR TO BE SQUEEZED OUT AROUND ALL EDGES OF THE VENEER UNIT TO ASSURE FULL BOND. ALL JOINTS MUST BE TOOLED

BONDING AGENT AND WATER (PRE-BLENDED 1:1)
CONCRETE BONDING AGENT - CONCRETE BONDING AGENTS SHALL MEET THE REQUIREMENTS OF ASTM C-1094 OR ASTM C-982.

WEATHER CONDITIONS:
IN HOT WEATHER CONDITIONS IT MAY BECOME NECESSARY TO MOISTEN THE WALL BEFORE APPLYING THE SETTING COAT. WEATHER CONDITIONS MAY ALSO REQUIRE MOISTENING THE BACK OF EACH STONE. THIS IS BEST DONE USING A FINE SPRAY OF WATER OR A NET BRUSH. THIS STEP IS IMPORTANT TO PREVENT EXCESSIVE ABSORPTION OF MOISTURE FROM THE MORTAR. APPLICATIONS MUST BE PROTECTED FROM FREEZING TEMPERATURES BY SHELTERING THE WALL AS MORTAR WILL NOT SET UP PROPERLY UNDER SUCH CONDITIONS. DO NOT USE ANTIFREEZE COMPOUNDS TO LOWER THE FREEZING POINT OF MORTAR.

APPLIED:
PER CENTURION STONE VENEER INSTALLATION PROCEDURES.

NOT TO SCALE

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

STONE OVER METAL FRAMING

I.0.4

2 - STORY WALL SECTION

KICKOUT FLASHING

SCRATCH COAT

METAL LATH

MOISTURE BARRIER

METAL LATH

ADHESIVE BACKED MEMBRANE OR ROOFING FELT LAPPING UP AND ONTO VERTICAL WALL SHEATHING

STONE VENEER

STONE VENEER

WEEP SCREED

STEP FLASHING

KICKOUT FLASHING

STEP FLASHING

SEAL BUILDING PAPER AROUND KICKOUT WITH ADHESIVE BACKED MEMBRANE

110" MIN

6"

6"

12"

2 - STORY WALL SECTION

WEEP SCREED

STEP FLASHING

KICKOUT FLASHING

STEP FLASHING

SEAL BUILDING PAPER AROUND KICKOUT WITH ADHESIVE BACKED MEMBRANE

Specifications:

WEATHER RESISTIVE BARRIER:
EXTERIOR WOOD SURFACES ARE COVERED WITH A WEATHER RESISTIVE BARRIER CONFORMING TO SECTION 14-1 OF THE UNIFORM BUILDING CODE. BARRIER TO COMPLY WITH ASTM D-226 GRADE 'D' BUILDING PAPER, ASPHALT SATURATED ORGANIC FELT NO. 15 OR A HOUSE WRAP PRODUCT OMIT BARRIER ON INTERIOR INSTALLATIONS.

METAL LATH:
A CORROSION RESISTANT EXPANDED METAL LATH WITH A MIN. RATING OF 25 LBS. PER SQ. YD. THAT COMPLIES WITH ASTM D-226. USE GALVANIZED LATH FOR EXTERIOR APPLICATIONS. BLACK METAL (NON-GALVANIZED) MAY BE USED FOR INTERIOR APPLICATIONS.

WEATHER CONDITIONS:
IN HOT WEATHER CONDITIONS IT MAY BECOME NECESSARY TO MOISTEN THE WALL BEFORE APPLYING THE SETTING COAT. WEATHER CONDITIONS MAY ALSO REQUIRE MOISTENING THE BACK OF EACH STONE. THIS IS BEST DONE USING A FINE SPRAY OF WATER OR A WET BRUSH. THIS STEP IS IMPORTANT TO PREVENT EXCESSIVE ABSORPTION OF MOISTURE FROM THE MORTAR. APPLICATIONS MUST BE PROTECTED FROM FREEZING TEMPERATURES BY SHELTERING THE WALL AS MORTAR WILL NOT SET UP PROPERLY UNDER SUCH CONDITIONS. DO NOT USE ANTIFREEZE COMPOUNDS TO LOWER THE FREEZING POINT OF MORTAR.

APPLIED PER CENTURION STONE VENEER INSTALLATION PROCEDURES.

NOT TO SCALE

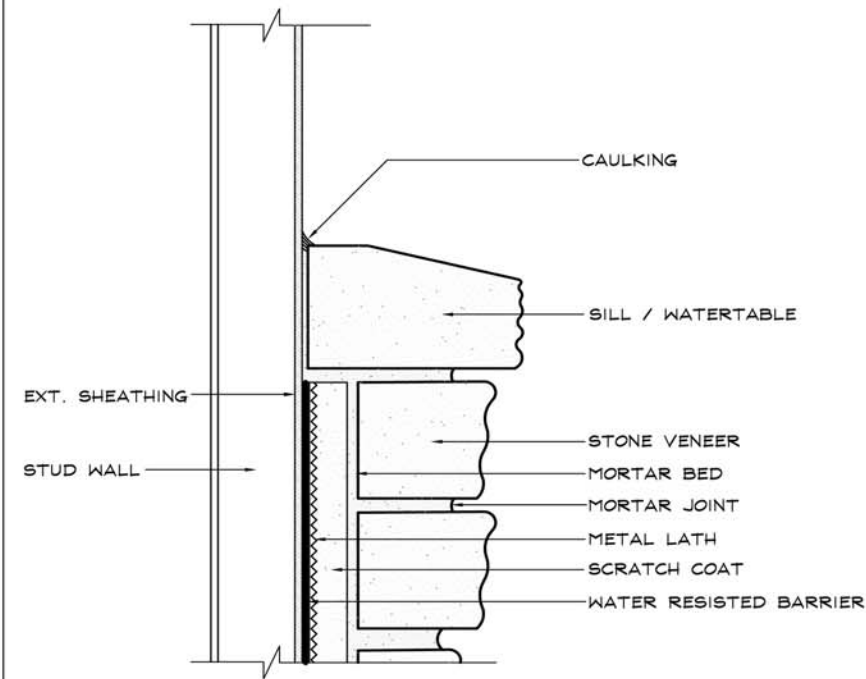
Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

ROOF - WALL KICKOUT FLASHING

C.0.2

Specifications :

WATERTABLE SET WITH MASONRY



NOT TO SCALE



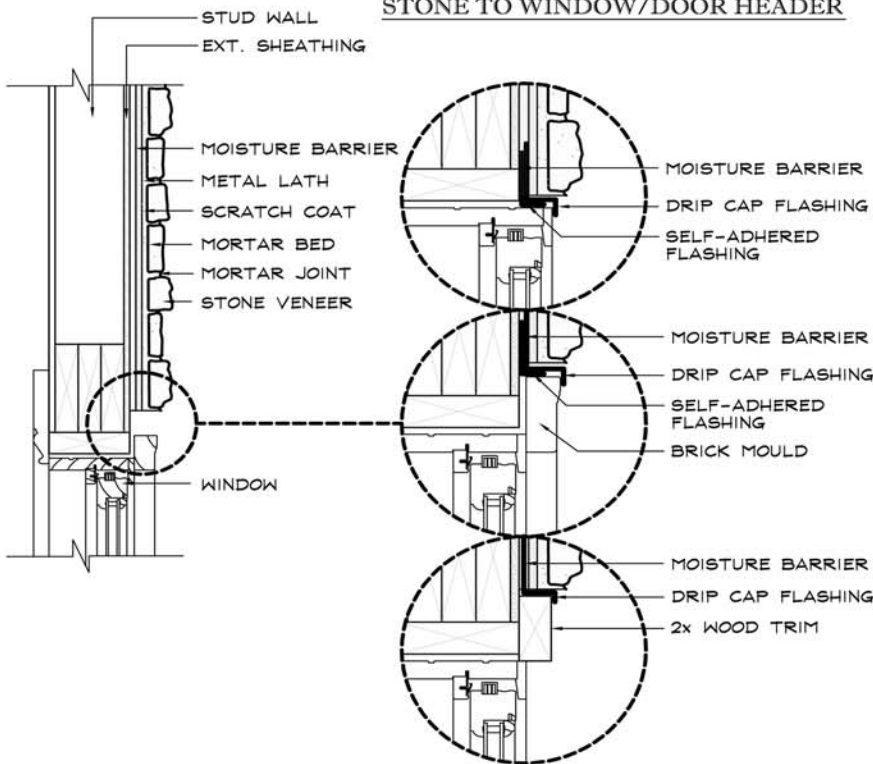
Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

WATERTABLE SET WITH MASONRY

H.0.5

Specifications :

STONE TO WINDOW/DOOR HEADER



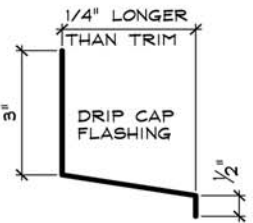
NOT TO SCALE



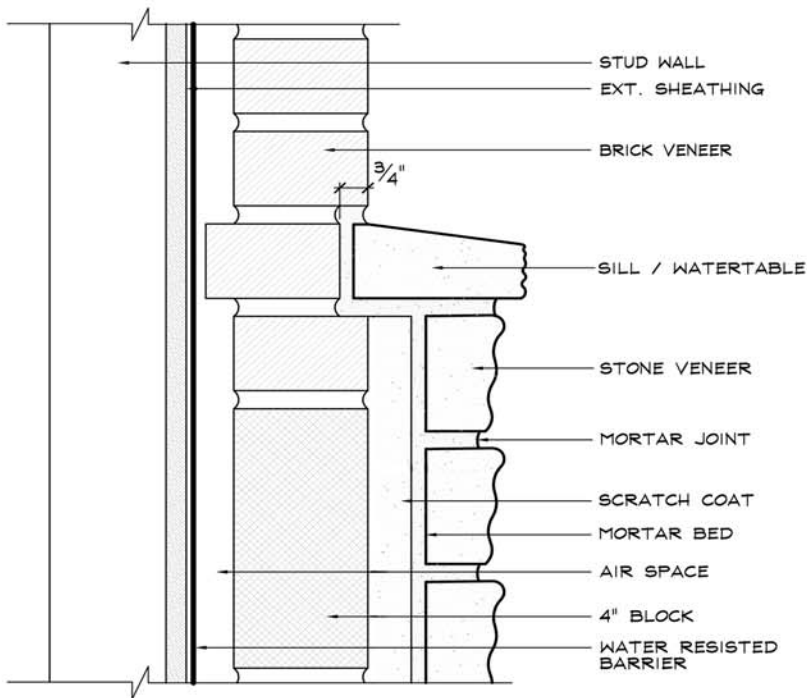
Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

STONE TO WINDOW/DOOR HEADER

E.0.1



WATERTABLE SET INTO BRICK



NOTE: WHEN INSTALLING WATERTABLE IN BRICK WALL, OFFSET BRICK 3/4" ON BRICK COARSE WHERE WATERTABLE IS INSTALLED.

NOT TO SCALE

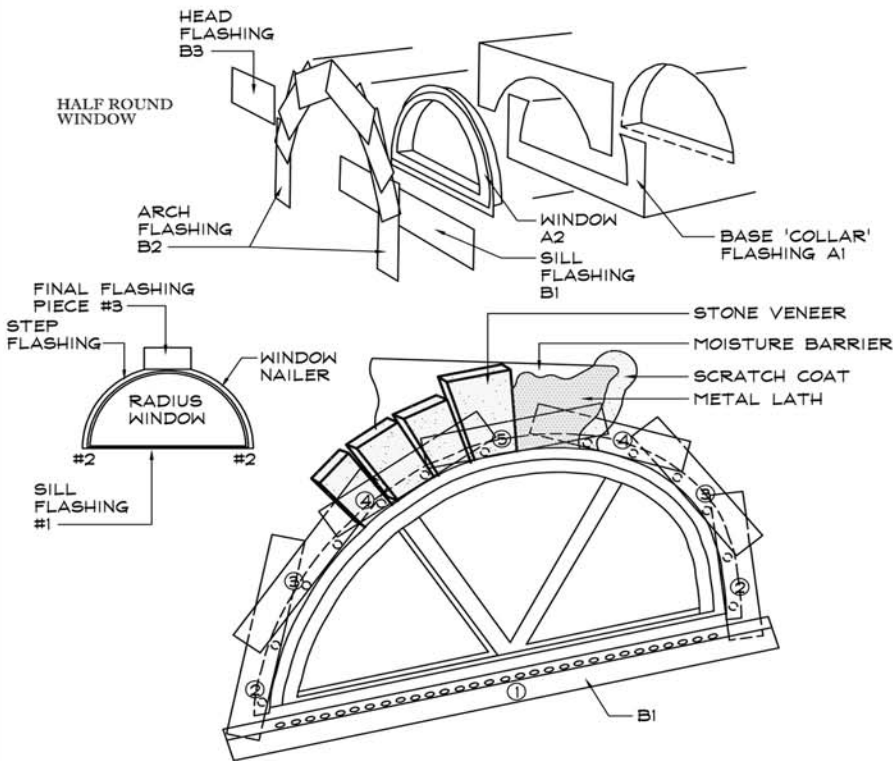


Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

WATERTABLE SET INTO BRICK

H.0.6

FLASHING AROUND CURVED WINDOW PERIMETER



Specifications :

THE FOLLOWING FLASHING DETAILS SHOULD BE USED ON CURVED OR ROUND WINDOWS. USE A SELF-ADHERED SUCH AS Grace Vycor Plus Self Adhered Flashing OR EQUAL.

INSTALLATION INSTRUCTIONS :

- A 1. INSTALL MOISTURE BARRIER BASE COLLAR FLASHING (MOISTURE BARRIER)
2. INSTALL FLANGED WINDOW
- B 1. INSTALL SELF-ADHERED FLASHING STARTING AT BOTTOM OF WINDOW.
2. INSTALL ARCH STRIP FLASHING (STARTING AT BOTTOM AND WORK YOUR WAY AROUND THE WINDOW) COMPLETELY SEALING THE WINDOW TO THE SHEATHING.
3. AFTER BOTH SIDES ARE RUN FROM BOTTOM TO TOP, THEN INSTALL ONE PIECE AT THE TOP.

NOTE : THE SELF-ADHERED FLASHING IS TO EXTEND UP ON TO THE WINDOW TO CREATE A TIGHT SEAL. (DO NOT EXTEND OVER ON TO THE FACE OF THE WINDOW.)

NOT TO SCALE



Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

FLASHING AROUND CURVED WINDOW PERIMETER

E.0.2

BACKER ROD AND SEALANT

Specifications :

ALUMINUM / VINYL / STEEL
COMMERCIAL WINDOWS

BACKER ROD AND SEALANT ALONG WITH CASING BEAD ARE THE BEST CHOICE ON COMMERCIAL INSTALLATIONS.

1. INSTALL VAPOR BARRIER AROUND WINDOW, CUT TO FIT WINDOW SIDES.
2. INSTALL CASING BEAD AROUND PERIMETER OF WINDOW, ADJUST CASING BEAD SPACING TO FIT BACKER ROD SIZE SPECIFICATION.
3. COVER CASING BEAD FLANGE WITH ADHESIVE MEMBRANE FLASHING.
4. LATH AND SCRATCH COAT INSTALLED PER MANUFACTURERS INSTALLATION INSTRUCTIONS.
5. BACKER ROD AND SEALANT INSTALLED.

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

BACKER ROD AND SEALANT

E.0.3

STONE TO WOOD TRIM
STUD CONSTRUCTION

Specifications :

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

STONE TO WOOD TRIM
STUD CONSTRUCTION

H.0.3

STONE TO WINDOW JAMB

Specifications :

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

STONE TO WINDOW JAMB

F.0.1

WATERTABLE SET WITH ANGLE SUPPORT

Specifications :

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

WATERTABLE SET WITH ANGLE SUPPORT

H.0.4

STONE TO BRICK WAINSCOT

METAL LATH
SCRATCH COAT
MORTAR BED
EXT. SHEATHING
WOOD STUD WALL

TWO LAYERS OF GRADE 'D' PAPER OVERLAPPING FLASHING (MOISTURE BARRIER)
STONE VENEER
MORTAR JOINT
CASING BEAD
SET FLASHING IN SEALANT (PITCH AND CAULK FOR DRAINAGE)
BRICK WATERTABLE
SECONDARY BARRIER BEHIND BRICK SHOULD NEST UNDER FLASHING FOR + DRAINAGE
BRICK VENEER

26 GAUGE GALV. METAL ANGLE

NOT TO SCALE

Specifications :

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

STONE TO BRICK WAINSCOT

H.0.1

STONE TO DOOR JAMB

MOISTURE BARRIER
ALUM. FLASHING
SELF-ADHERED FLASHING
BRICK LEDGE

FLASHING BRICK LEDGE
METAL LATH SCRATCH COAT
MORTAR BED
STONE VENEER
MORTAR JOINT

STUD WALL
EXT. SHEATHING
MOISTURE BARRIER
DOOR JAMB

NOT TO SCALE

Specifications :

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

STONE TO DOOR JAMB

F.0.2

STONE WAINSCOT TRANSITION
ON STEEL FRAME CONSTRUCTION

SIDING
J - CHANNEL
GALV. METAL FLASHING

SIDING
MIN. 14 ga. GALV. METAL ANGLE (OPTIONAL)
SILL / WATERTABLE
INDUSTRIAL ADHESIVE
STONE VENEER
MORTAR BED
MORTAR JOINT
METAL LATH
SCRATCH COAT
WATER RESISTED BARRIER

EXT. SHEATHING
METAL STUD WALL

14 GAUGE GALV. METAL ANGLE
J - CHANNEL

NOT TO SCALE

Specifications :

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

STONE WAINSCOT TRANSITION

H.0.2

ADHESIVE MEMBRANE FLASHING

INSTALL BUILDING PAPER OVER WINDOW HEAD

CUT MEMBRANE AT HEAD AND SILL AND FOLD BACK

FOLD AND ADHERE MEMBRANE TO JAMB

INSTALL ADHESIVE MEMBRANE AT HEAD TO COVER DRIP CAP AND MEMBRANE AT JAMBS

INSTALL ADHESIVE MEMBRANE TO COVER PAPER AND LAP ONTO WINDOW JAMB (SEE BLOWUP LEFT)

NOT TO SCALE

Specifications :

1. INSTALL WATER RESISTANT BARRIER CONFORMING TO SECTION 14-1 OF THE UNIFORM BUILDING CODE. ONE OR TWO LAYERS MAY BE REQUIRED TO MEET LOCAL CODES.
2. WATER RESISTANT BARRIER TO SLIP UNDER WINDOW SILL - NOTCH BARRIER TO FIT TIGHTLY AROUND WINDOW FRAME PROFILE.
3. SLIP LOWER END OF JAMB FLASHING PAPER AND SILL FLASHING PAPER OVER WATER RESISTANT BARRIER AT WINDOW SILL.
4. LAP WATER RESISTANT BARRIER VERTICALLY 6" (152mm) MIN.
5. LAP WATER RESISTANT BARRIER HORIZONTALLY 2" (51mm) MIN.
6. INSTALL BUILDING PAPER OVER WINDOW HEAD.
7. INSTALL ADHESIVE MEMBRANE - COVER PAPER AND LAP ONTO WINDOW AT LEFT.
8. INSTALL ADHESIVE MEMBRANE AT HEAD TO COVER DRIP CAP AND MEMBRANE AT JAMBS.
9. INSTALL STONE SETTING MATERIAL PER MANUFACTURE'S INSTRUCTIONS.

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

ADHESIVE MEMBRANE FLASHING

F.0.3

STONE WINDOW SILL TO WOOD STUD

Specifications :

NOT TO SCALE

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

STONE WINDOW SILL TO WOOD STUD

G.0.1

STONE WINDOW SILL TO METAL STUD

Specifications :

NOT TO SCALE

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

STONE WINDOW SILL TO METAL STUD

G.0.2

WINDOW SILL FLASHING

Specifications :

NOT TO SCALE

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

WINDOW SILL FLASHING

G.0.3

WEATHER RESISTIVE BARRIER :
EXTERIOR WOOD SURFACES ARE COVERED WITH A WEATHER RESISTIVE BARRIER CONFORMING TO SECTION 14-1 OF THE UNIFORM BUILDING CODE. BARRIER TO COMPLY WITH ASTM D-226 GRADE 'D' BUILDING PAPER, ASPHALT SATURATED ORGANIC FELT NO. 15 OR A HOUSE WRAP PRODUCT WITH BARRIER ON INTERIOR INSTALLATIONS.

METAL LATH :
A CORROSION RESISTANT EXPANDED METAL LATH WITH A MIN. RATING OF 2.50in. PER SQ. YARD THAT COMPLIES WITH ASTM D-226. USE GALVANIZED LATH FOR EXTERIOR APPLICATIONS. BLACK METAL (NON-GALVANIZED) MAY BE USED FOR INTERIOR APPLICATIONS.

MORTAR MIX DESIGNS

GROUTED JOINT INSTALLATION				
MORTAR TYPE S	PORTLAND CEMENT OR	MASONRY CEMENT	HYDRATED LIME OR LIME PUTTY	SAND
-	BLENDED	TYPE (N)		
-	2	-	1	5 TO 7
3	-	-	-	5 TO 7
-	-	1	-	15 TO 25
-	1	-	1	15 TO 25

MIX FOR DRY STACK SERIES

MORTAR TYPE S	PORTLAND CEMENT OR			SAND
-	BLENDED			
-	3	#1 PARTS DRYSET	-	7
-	2	BONDING AGENT	1 PART LIME	7
3	-	BONDING AGENT	-	7

MUST BE LATEX MODIFIED THINSET FOR EXTERIOR USE MEETING ANSI A 118.4

THE MORTAR BED CONSISTENCY MUST ALLOW MORTAR TO BE SQUEEZED OUT AROUND ALL EDGES OF THE VENEER UNIT TO ASSURE FULL BOND. ALL JOINTS MUST BE TOOLED

BONDING AGENT AND WATER (PRE-BLENDED !!!)
CONCRETE BONDING AGENT : CONCRETE BONDING AGENTS SHALL MEET THE REQUIREMENTS OF ASTM C-1094 OR ASTM C-1932.

WEATHER CONDITIONS :
IN HOT WEATHER CONDITIONS IT MAY BE NECESSARY TO MOISTEN THE WALL BEFORE APPLYING THE SETTING COAT. WEATHER CONDITIONS MAY ALSO REQUIRE MOISTENING THE BACK OF EACH STONE. THIS IS BEST DONE USING A FINE SPRAY OF WATER OR A NET BRUSH. THIS STEP IS IMPORTANT TO PREVENT EXCESSIVE ABSORPTION OF MOISTURE FROM THE MORTAR. APPLICATIONS MUST BE PROTECTED FROM FREEZING TEMPERATURES BY SHELTERING THE WALL AS MORTAR WILL NOT SET UP PROPERLY UNDER SUCH CONDITIONS. DO NOT USE ANTIFREEZE COMPOUNDS TO LOWER THE FREEZING POINT OF MORTAR.

APPLIED :
PER CENTURION STONE VENEER INSTALLATION PROCEDURES.

DOOR SILL FLASHING

Specifications :

NOT TO SCALE

Centurion Products, Inc
50 Van Buren Street
Nashville, TN 37208
www.centurionstone.com

DOOR SILL FLASHING

G.0.4