

Stack Ledge Mortarless Stone Veneer Panels

Installation Instructions

Caution: It is strongly recommended that you check with local building authorities regarding building code requirements in your area before installing Stack-A-Stone products on your home or business.

Beautiful panelized “stack-ledge” design with an easy to install, screw-in fastening system. Can be used for interior or exterior installations. Please read entire installation instructions carefully before beginning.

Tools and Materials Needed

- Level
- Tape Measure
- Drill or screw gun
- #8 Stainless Steel or zinc plated screws 1-1/2” • Tapcon masonry screws if installing over masonry or exposed concrete foundation wall
- Hammer Tacker (to apply Weather Resistance Barrier (WRB)
- Circular saw, table saw or wet saw with masonry blade (Hand grinder may also be used)
- Caulk Gun
- Adhesive: recommended PL Premium Construction Adhesive
- 6” Non-painted metal flashing
- Stack-A-Stone recommends that all safety precautions are to be taken seriously. At a minimum the use of eye protection, NIOSH approved N-95 series respirator or dusk mask, work gloves, long sleeves, hearing protection, steel toe boots and a hard hat should be used to reduce the possibility of injury during the product installation process.

Panel Sizes and Packaging

Flats:

Flats are packaged in 6.83 SF boxes (6 pieces)

- Each flat panel is 20.5” long x 8” high. Approximately 2” thick, covering 1.14 SF.

Corners:

Corners are packaged in 5.33 LF boxes (8 corner pieces).

Foundation Weep Screed:

Use Foundation Weep Screed at the base of project. Sold in 10’ foot lengths.

Sill Accessories:

Sills are 20” long x 2.5” deep x 3.25” height. Packaged 6 to a box

Other Accessories:

Light and Utility boxes are available

Stack Ledge Panels are designed to be installed over any sound structure meeting building codes, though typically a wood structure. Stack-A-Stone requires a minimum of 1/2” plywood or OSB sheathing

beneath Stack Ledge Panels. Two layers of code approved weather resistive barriers (WRB) must be applied for exterior installation. Typical WRBs are Grade D building paper or #15 felt. House wrap may be used as inner layer. Apply WRB in shingle fashion, starting at the bottom and lapping each layer as you work upwards. Be careful to attach the WRB smoothly. Do not staple bottom of WRB until you have installed flashing or weep screeds. All wall penetrations, doors, and windows, should be sealed using self-adhesive flashing properly wrapped and lapped per the flashing manufacturer's instructions.

Estimating Your Materials

Lineal footage (LF) of corners: To find the lineal feet of corners, measure the height of each corner – this is your lineal feet. If you have more than one corner, add the total of each to find the total lineal feet.

Square Footage (SF) of Flats: Calculate the wall space by multiplying the width by the height, then subtract out the window and door opening areas – this is your total square footage. We suggest adding 10% for scrap and cutting. If you have corners, you will also subtract another 1.3 SF for each lineal foot of corners – for example: if you have two walls of 30 SF each, separated by a 5 LF corner, your total square footage for flats will be 30 plus 30 minus 6.5 ($5 \text{ lf} \times 1.3$) = 53.5. Add 10% for scrap and cutting, your total is 58.8.

For this sample project, you will need:

Flats: 58.8 SF (11 boxes) Corners: 5 LF (1 box)

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Cutting Instructions

You will likely need to cut Stack Ledge Panels at some point in your project. A circular saw or hand grinder with a masonry blade should be utilized. We recommend doing all cutting outdoors. Be sure to follow safe work practices by wearing protective eyewear, face masks and gloves. After cutting, we recommend cleaning cutting dust with blower or soft bristle brush. Helpful tip: Place cut ends in the least visible locations, such as against trim boards or backing to an inside corner.

Instructions from Start to Finish

1. **Installing Foundation Weep Screed:** Using your level, install Foundation Weep Screed using roofing nails or screws every 8"-10". Install first Foundation Weep Screed at corner, working away from the corner. We recommend marking a level line with a chalk line or pencil before applying the Foundation Weep Screed to assure you are running level. The outer layer of the weather resistive barrier should lap over the flange of the Foundation Weep Screed. Double check level. Note: for exterior applications, Stack Ledge Panels must maintain a clearance of 4" above grade or 2" above adjacent hard surface, such as pavers, sidewalk, etc. Be sure to install your Foundation Weep Screed to account for this. [TIP: Each row of Stack Stone Panels is 8 inches tall. Measure your total height of wall, and divide by 8 inches. If you are left with a small fraction, adjust your Foundation Weep Screed location slightly to help avoid needing to cut a small piece to finish the top row.] Apply 6" non-painted metal flashing around any planned penetrations (e.g. outlets, light fixtures, etc...) as well as at the termination points of the Stack Stone Panels (top, side ends, inside corners). NOTE: If you have any planned penetrations (e.g., outlets, light fixtures, etc.), be sure to read Step 5 before installing stone. You will need to install 6" non-painted, metal flashing at each penetration area.

2. Installing Corners: If you have corners, begin installing corners first, starting at the bottom and working up.

Each corner has one side that will be long, the other shorter – you will alternate this on subsequent rows. Holding the corner in place- check level, then fasten four fasteners with 1-1/2 " stainless steel or zinc coated screws. Once you have your first corner set in place, you can work horizontally across the row installing your flats. Build on each subsequent row by, once again, starting with corner pieces. Check level at each row before fastening. Be sure to alternate short leg and long leg on each row. At top row, you may need to cut top part of the corner, leaving no fastener. For these pieces, secure corner pieces to the non-painted flashing using PL Premium Construction adhesive.

3. Installing Flats: To make the installation accurate and faster- locate each stud (typically spaced 16" on center) and mark the location up the entire wall. Install Stack Ledge flats by placing bottom of panel on top part of the Foundation Weep Screed. If you have already installed corner pieces, start first Stack Ledge flat panel immediately next to corner, working away from corner (if you have two corners, work from each corner meeting midway for final fitting cuts). After checking level, screw two fasteners being sure to penetrate wall studs if possible. On full length panels- use four fasteners being sure not to fasten no closer than 1/2" away from the edge of the flashing and at least 1/2" up from the bottom of the flashing. On cut panels- fasteners should be spaced at approximately 5" spacing with at least 1 screw secured to a wall stud. Working your way horizontally across your project, install each flat until you come to end. Check level of each stone panel before fastening. At the end of each row, cut as needed to fit. If cutting eliminates fasteners, use PL premium construction adhesive to secure. As with the corners, at the top row, you may need to cut the panel to fit leaving no fasteners at the top of the panel. **NOTE: THE BEST INSTALLATION RESULTS ARE ACHIEVED WHEN PANELS ARE INSTALLED LEVEL AND PLUMB AND STAGGERED FROM ONE COURSE TO THE NEXT TO ENSURE THAT NO VERTICAL JOINTS ARE ALIGNED WITH THE VERTICAL JOINTS OF PREVIOUS COURSE.**

4. Installing Sills: Install sills under windows or as desired under other wall transitions, such as siding. Using a level, set sill at desired location and fasten screws through fasteners. If you need to cut a section that will leave you without a fastener, use PL Premium Construction adhesive to secure piece.

5. Installing Light boxes, Utility boxes, Keystones & Trim stones accessories:

Wall prep work should be done on all wall accessories areas before stone panels are applied. Install non-painted, metal flashing covering an area at least 4" larger than accessory piece. Use 1 1/2" galvanized roofing nail or screws to secure flashing around wall penetration. Attach the accessory to the non-painted flashing using PL adhesive; ensure the accessory is level and plum. It may be necessary to prop the accessory piece up until the adhesive has cured enough to support the weight.