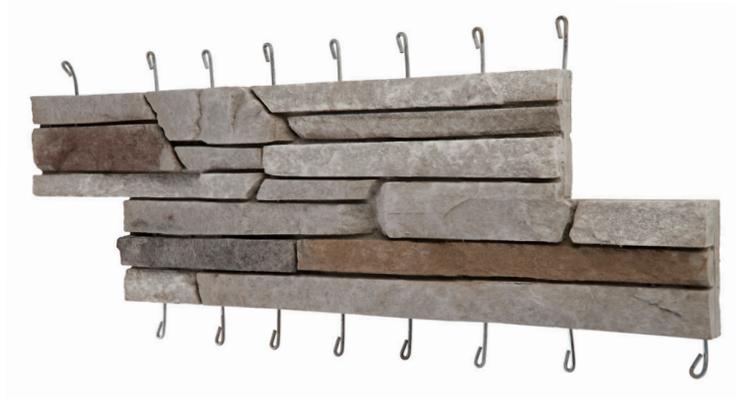


CLIPSTONE[®]

ProPanel



ProPanel Installation Instructions



Estimating Amount of ProPanel Pieces Needed

ESTIMATING CORNER STONES

- Measure the height of all corner edges to estimate the total linear feet of corners needed.

ESTIMATING FLAT PANELS

- Calculate wall area you want to cover with stone (height X width) and subtract area of window and door openings (if applicable). Add sufficient material for waste due to cutting or breakage.
- Subtract sufficient material from your flat stone calculation to account for wall coverage of corners.

ESTIMATING STARTER STRIP

- ProPanel Starter Strip is required at the bottom of all walls and across the top of all windows, doors, and other openings.
- Measure the total width of all window widths, door widths, and wall lengths where ProPanel will be installed to estimate the total linear feet of Starter Strip needed.

ESTIMATING WINDOWSILLS AND WAINSCOTS

- Sill stones are 20" long. Measure total linear footage of windowsills and wainscots (if specified). Divide the total linear feet by 1.6 to estimate the number of sills needed.

Special pieces, such as outlet covers, are available if desired. Please consult the manufacturers literature for availability.

Suggestions:

Order 5-10% excess square footage for flats and 5-10% excess linear footage for corners to account for waste, cuts, and breakage

Required Fasteners

- 1-1/4" #8 galvanized exterior grade pan head lath screws, rated for the appropriate structural member (wood, steel stud, or masonry) are required.

Depending on our project you will need:

- 3 screws per square feet of flats
- 3 screws per linear feet of corners
- 5 screws for each piece of starter strip (1 screw per square foot)



Recommended Tools

- Philips head screw gun
- Levels: 4-ft and 1-ft
- Chalk line/reel
- Stapler and staples to fasten your weather resistant barrier
- Chop saw or hand grinder including a masonry blade. Wet saw and a masonry blade may also be used.
- Personal Protective Equipment, including:
 - Gloves
 - Eye protection
 - Appropriate dust mask for cutting
- Hand chisel
- Rubber mallet
- Cable cutters

Before You Begin

BLEND STONE PIECES

- Before you begin installation, lay out sufficient corner stone pieces and flat stone pieces to ensure a natural look and color blend.

HOW TO CUT PROPANEL PIECES

- Cut ProPanel pieces both horizontally and vertically with a chop saw, wet saw with a masonry blade, or hand grinder with a masonry blade.
- ProPanel flats shall not be cut shorter than 6 inches and have less than two points of attachment via original eyelets at the top of the stone.

FOR EXTERIOR WALL PREPARATION

- Install ProPanel over 7/16" or greater OSB or plywood sheathing attached to a structural member (wood, metal studs, concrete or CMU) as specified in IAPMO UER-383.
- Install code compliant WRB according to the project documents, local code requirements, and the WRB manufacturers recommended installation practices.

FOR INTERIOR WALL PREPARATION

- For interior applications, ProPanel shall be installed over a minimum 7/16" plywood or OSB (see installation instructions above). **DO NOT INSTALL PROPANEL DIRECTLY TO DRYWALL.**
- For interior applications, the application of a WRB may not be required, consult job specifications.

ProPanel Installation Steps

Fig. 1



STEP 1: ATTACH STARTER STRIP (see Fig. 1)

- Starter strip is required at the bottom of a wall and across the top of all windows, doors, and other openings.
- Cut the starter strip to the length of wall you are covering with ProPanel.
- Ensure the starter strip is level prior to fastening to the substrate.
 - For inside and outside wall corners: cut the starter strip, leaving a ¼" gap between the end of the starter strip and the end of the wall corner.
- For exterior projects, ProPanel stone veneer should be installed with the local code requirements for offset above grade.
- Ensure outer layer of weather resistant barrier (WRB) is positively flashed/layered over top of starter strip according to WRB manufacturer's instructions.

Fig. 2



STEP 2: INSTALL CORNER PIECES (see Fig. 2)

- Lay out your ProPanel corners, pulling from your blended stone pieces, to ensure a natural and color varied look.
- Starting with the outside corners at the starter strip, install the first corner by bending the bottom clips up and fitting the stone snug against the bottom of the starter strip.
 - ProPanel corners are reversible, and can be installed in either direction.
- Offset corner legs 3/8" off wall to allow for movement.
- Install corners vertically on the wall, tucking the bottom of the clips behind the stone below and attaching screws in all visible eyelets.
- For inside corners, we recommend cutting the stair step edge to make a flat edge and kitting (i.e. weaving the ends together up the wall).



Fig.3



STEP 3: COMPLETE YOUR FIRST ROW OF FLATS (see Fig. 3)

1. Lay out your ProPanel flats, pulling from your blended stone pieces, ensuring you are mixing your long and short pieces for a blend of colors and sizes.
2. Ensure you are installing ProPanel left to right.
3. Install the first row by bending the bottom clips up until they are flat behind the stone, then fit the panel snug against the bottom of the starter strip.
4. Check panel for level prior to fastening to the substrate.
5. While gently pushing down and back, insert screws into the top eyelets of the leveled panel. Fasteners should be evenly distributed over the entire panel to support and attach all top edges of the installed panel.
 - Each square foot of ProPanel should be installed with a minimum of 3 screws fastened to the top of the stone.
 - Cut ProPanel pieces should not be less than 6" in length and require a minimum of 2 screws fastened to the top of the stone.
6. Ensure each stone is properly attached before installing the next stone.
7. Cut flat pieces as needed. Each piece must always have a minimum of two points of attachment by fastener on the top of the stone. If necessary, cut pieces to the left or right of the clips to allow for the minimum amount of fasteners needed, keeping the piece at least 6 inches in length.

Fig. 4



STEP 4: COMPLETE YOUR OTHER ROWS (see Fig. 4)

1. Continue to install blended ProPanel pieces from left to right.
2. For your second row and beyond, tuck the bottom legs behind the stone below.
3. Continue installing ProPanel by following points 4-7 in Step 3.

STEP 5: ADD YOUR ACCESSORIES (see Fig. 5)

- 20" long wainscot sills are sold separately for capping wainscot or as a windowsill.
- Special pieces, such as outlet covers, are sold separately. Please consult the manufacturer's literature for availability.

Fig. 5



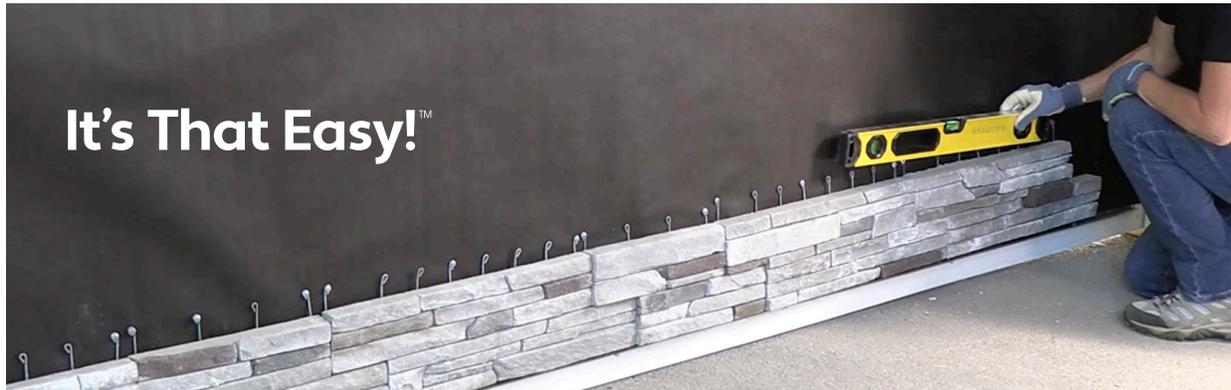
Suggestions for Finishing / Trimming Your Installation

- We suggest leaving a 3/8" gap between the top of the stone course and soffit during installation to allow room for the house to settle in case of board shrinkage, and to keep the top course of the stone panels from crushing the soffit.
 - Depending on your finish location, install a J Channel with a flexible strip to transition to soffit. Note that this transition may need to be caulked and should be verified with the siding manufacturer.
- Cut the top tabs off the ProPanel, leaving the bottom tabs in place to properly secure to the stone below.

There are several ways to finish the top course:

- If you have not removed the fastening flange, use a PVC trim board to hide the fastening flange of the top course.
- If you removed the fastening flange of top course, install partial panels.

Attach shutters, mailboxes, and other final additions to stone panels using the proper hardware for mounting into masonry. Following the manufacturer's instructions for mounting to stone or masonry products, use a masonry bit to drill holes and avoid drilling in between seams in the stones when possible. We recommend adding a gutter extension to avoid splashing water on your panels.



Clean and Upkeep

Cleaning Dos and Don'ts

ProPanel is manufactured using the same natural materials used in traditional adhered masonry veneer. As such, routine care and maintenance is required to ensure the beauty of the product endures. Routine cleaning is permissible; however, the use of pressure washing or high-power washing has the potential to damage the finish and color of the stone, and thus will void any manufacturer's warranty. Simply use a hand brush, bucket of water, or traditional garden hose to clean any loose debris that builds up over time.

Warning

WARNING: This product can expose you to chemicals including silica. Refer to our MSDS.

- **SILICA DUST IS HARMFUL IF INHALED.** Exposure to silica dust from cutting, grinding, or polishing product can cause acute lung injury or cancer. Use adequate dust prevention methods. If you experience any illness as a result of exposure to these chemicals, consult a medical professional immediately and/or call 911.
- Children or persons with respiratory issues or concerns should not be present during cutting, grinding or polishing.
- Wear personal protective equipment as recommended by the cutting tool manufacturer.

Disclaimer

ENVIRONMENTAL MATERIALS LLC DOES NOT WARRANTY ANY PRODUCT FOR ANY SPECIFIC USE OR INSTALLATION PROCEDURE OR MAINTENANCE PRACTICE. UPON PURCHASING, INSTALLING OR USING ANY ENVIRONMENTAL MATERIALS LLC PRODUCT, CUSTOMER (INCLUDING SMALL, MEDIUM, AND LARGE BUSINESSES, PROFESSIONAL INSTALLERS, AND GOVERNMENT AND PUBLIC SECTOR CUSTOMERS AND RESELLERS) WAIVES ALL CLAIMS RELATING TO THE PRODUCT, INCLUDING (BUT NOT LIMITED TO) ALL CLAIMS RELATING TO EXPRESS WARRANTIES AND/OR STATUTORY OR IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTY OF MERCHANTABILITY AND ALL IMPLIED WARRANTIES OF FITNESS AND WARRANTIES AGAINST HIDDEN OR LATENT DEFECTS. ENVIRONMENTAL MATERIALS LLC DISCLAIMS ALL SUCH WARRANTIES. ALL PURCHASES ARE "AS IS," "AS AVAILABLE" AND "WITH ALL FAULTS". TO THE EXTENT PERMITTED BY APPLICABLE LAW, ENVIRONMENTAL MATERIALS LLC SHALL NOT BE LIABLE FOR ANY SPECIAL OR CONSEQUENTIAL DAMAGES ARISING FROM THE OWNERSHIP, USE, POSSESSION, INSTALLATION, OR MAINTENANCE OF ANY PRODUCT BY ANY PERSON OR OTHERWISE, INCLUDING (BUT NOT LIMITED TO) ANY DAMAGES AND/OR LIABILITY ARISING FROM THE INSTALLATION, USE, PURCHASE, OR MAINTENANCE OF ANY TOOLS USED IN THE INSTALLATION PROCEDURE. CUSTOMER ACKNOWLEDGES AND AGREES THAT ENVIRONMENTAL MATERIALS LLC WILL NOT BE LIABLE FOR ANY MATTER, CAUSE, OR THING WHATSOEVER ARISING OUT OF OR IN CONNECTION WITH CUSTOMER'S CLAIM OF PERSONAL INJURY DUE TO CUSTOMER'S EXPOSURE TO ANY CHEMICALS, INCLUDING (BUT NOT LIMITED TO SILICA DUST) THROUGHOUT THE INSTALLATION PROCEDURE OR THE PRESENCE OF ANY CHEMICALS, INCLUDING (BUT NOT LIMITED TO SILICA DUST) AT THE TIME OF ANY THE OWNERSHIP, USE, POSSESSION, INSTALLATION, OR MAINTENANCE OF ANY PRODUCT.

ENVIRONMENTAL MATERIALS LLC MAXIMUM LIABILITY PURSUANT TO THESE INSTALLATION INSTRUCTIONS ARE LIMITED TO AND WILL NOT EXCEED THE CONTRACT PRICE FOR THE GOODS AND MATERIALS PAID FOR AND RECEIVED BY THE CUSTOMER.

FOR ADDITIONAL WARRANTY PROVISION AS TO THE PRODUCT, PLEASE VISIT: [ESW-349-ClipStone-Warranty.pdf](#) (myclipstone.com)