



Q QORA[®]
CLADDING | crafted by Arcitell[®]

INSTALLATION GUIDE

THE
QORA[®]
STORY

Imagine.

Imagine a time when building or remodeling a home was much easier. Fewer choices, authentic, natural materials, and the luxury of time to build to exacting specifications—when craftsmanship was a valued art form. Today, our fast-paced world demands that same quality, yet speed and efficiency are the name of the game. And, with so many choices out there, what's good?

When it comes to siding, homeowners want the time-honored look of authentic brick, wood, and stone, yet time and costs often make the “real thing” prohibitive. For years, companies have worked hard to create viable alternatives that mimic authentic materials with features that make them less expensive and easier to install.

The question is—do they look like the real thing?

Imagine With Qora.

Introducing Qora Cladding from Arcitell—a world leader in high-end composite building materials. Qora takes the very best attributes of authentic stone, brick, and wood facades and has created the same look using a patented, revolutionary fiberglass-reinforced rigid foam core, and at a fraction of the cost of the real thing.

The result is a new world of possibilities with Qora—beautiful, strong, authentic, and distinctive.

Qora Cladding. Imagine. Then Make it Your Own.

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TOOLS AND MATERIALS NEEDED

Tools

- Table saw with segmented diamond blade (masonry blade)
- Hand grinder with segmented diamond blade (masonry blade)
- Skill saw with segmented diamond blade (masonry blade) – (optional)
- 10" sliding compound miter saw with segmented diamond blade (masonry blade) – (optional)
- Drill
- Hammer drill (If applying over concrete, masonry block, brick, etc)
- Rubber mallet
- Hammer
- Shims
- Putty Knife
- Level
4' • 2' • Torpedo
- Carbide-tipped masonry drill bits
- Tape measure
- Chalk line
- 12" speed square
- 48" T-square
- Brad Nailer (optional)
If using Brad Nailer, ensure brad nails are **galvanized!**
- Carpenter pencils
- Markers

Supplies

- Caulk
 - › Mor-Flexx Gray for all brick panels (with standard mortar joints)
 - › Mor-Flexx Charcoal for all Ashlar Drystack panels
 - › Recommended for sealing cut edges
- Exterior construction adhesive (Loctite PL Premium Max recommended)
- Ventilation/pest deterrent strips
- Exterior grade screws (for applications into wood substrate) & masonry screws (tapcons) for concrete/block/etc.
 - › Minimum length: 1 1/2"
 - › Head style: Modified Truss Head (Recommended) or Bugle (tapered)
 - › Shank Size #8-10
 - › Shank style: coarse thread
- Flashing (Aluminum, tape, or vinyl)

Recommended Safety Equipment

- N95 disposable respirator
- Safety glasses
- Hearing protection
- Gloves
- Steel-toe boots/shoes

THE QORA CLADDING SYSTEM

PANELS:

Qora Stone, Qora Brick

- › Dimensions: 18" x 48" x 1"
(roughly 6 SF of coverage per panel)

ACCESSORIES:

Corners

Qora Corners—Inside and Outside
Natural Stone, Brick, and Wood.

- › Dimensions: 48" x 4" x 4"

Trim

Qora Window and Door Trim
Natural Stone

- › Dimensions: 48" x 2"

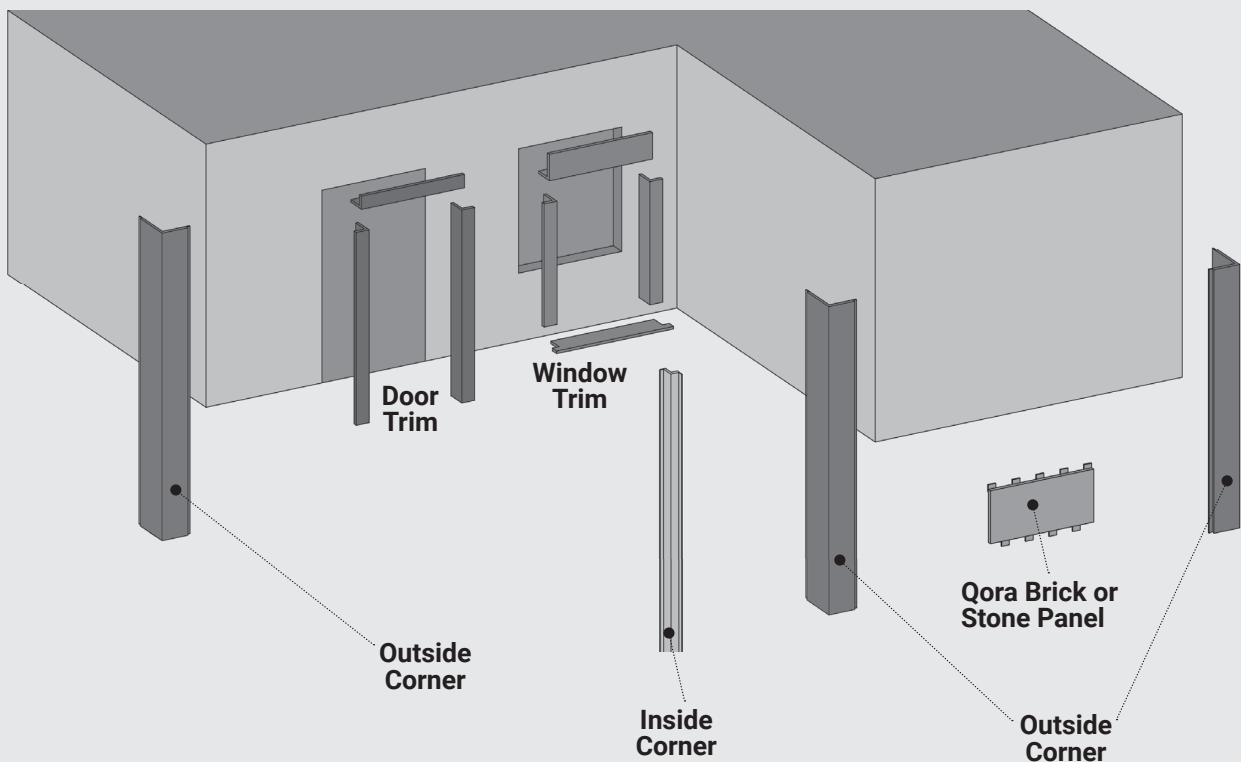
Sills

Qora Splitface Limestone Ledge Sills

- › Dimensions: 47" x 3"

Qora Natural Stone Window Ledge

- › Dimensions: 48" x 4" x 6"



TIPS FOR CUTTING AND FASTENING

Cutting

- Measure from the left or right to your desired length as necessary, mark a line over the panel using the T-square, and cut the panel as required.
- Any of the cutting tools listed in the previous section can be used to cut Qora cladding based on installer preference.
- Seal every cut edge with caulk.
- Attempt to minimize the number of cuts made
 - › Wainscoting applications (36" high) will ultimately minimize cuts and provide for the fastest, most efficient installations possible with our products.
 - › During installation, attempt to make all cuts face termination sections where the cut will not be seen or butted up to a full panel.



Fastening

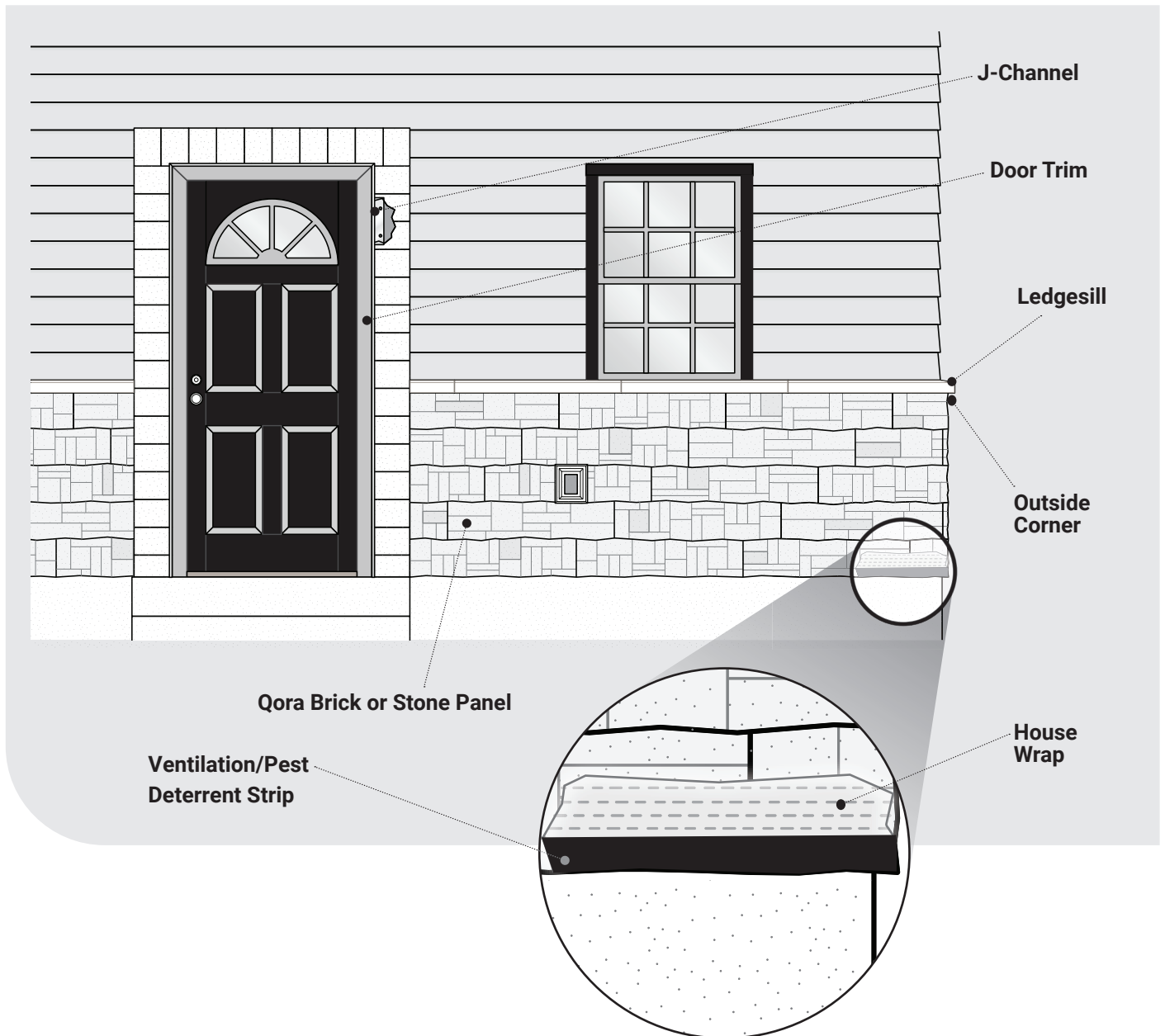
- The installer needs to ensure that when fastening through the top flange, the flange needs to be drawn flush to the wall to ensure the next panel above it doesn't kick out and create an unwanted shadow line.
- Pre-drill fastening locations with carbide-tipped masonry drill bits.
- A minimum of five fasteners per panel is recommended.
 - › One on the bottom left and right corner of the panel in the designated fastening locations (fastener pockets).
 - › One on the top left and right corner of the panel [either the flange or the designated fastening locations (fastener pockets)].
 - › One in the middle of the top flange.
- Give the panel a push around the edges after the five fasteners have been set.
 - › If there are any loose spots, add a fastener where necessary.
- For installation in high-wind areas, fasten eight screws per panel, ensuring they are evenly distributed across the panel and driven into studs.
- Qora is able to be face-fastened anywhere on the panel, as necessary.
 - › **Recommended for Qora Stone:** face fastening in the joint so the screw head can be covered by the Mor-Flexx Charcoal Caulk.
 - › **Recommended for Qora Brick:** face fastening in the joint so the screw head can be covered with Mor-Flexx Gray Caulk.
- **IMPORTANT:** Be sure not to overdrive fastener heads. You want to just barely sink the fastener head into the surface of the panel so that it is flat to the touch. If you overdrive, the panel will pull back away from the substrate.

ESTIMATING MATERIALS

To get started, multiply the width x height (in feet) to determine the total wall square footage area. Then subtract the square footage (calculated in the same way) of any doors, windows or areas that will not be covered by Qora. This will result in your net square footage requirement. Each Qora panel is six square feet.

Add to your calculations a 15% waste factor.

For Qora accessories like inside and outside corners, ledge sills, window and door trim measure in linear feet to determine the quantity needed. Each Qora accessory is four linear feet long.



Before installing Qora Cladding, it is important to ensure the walls are flat, a weather-resistant barrier is installed, and openings are properly flashed. For attachment over walls where the air inside the structure is not conditioned, Qora Cladding can be installed directly over other cladding materials like DuraTemp®, T1-11 plywood, LP SmartSide® or steel siding where the weather barrier is integrated or unnecessary.

In some cases, it will be necessary to use mounting blocks, various trim materials, and other accessories to ensure the wall is prepared to receive Qora Cladding. There are many materials, techniques, and designs to address the various scenarios where Qora Cladding will be used.

Ground Clearance

While we recommend a 4" clearance, Qora Cladding will not decay when installed in contact with the ground. However, project details considering water and water vapor management, as well as the prevention of insect infestation, should be made when ground contact is planned. Local code and inspection authorities should be consulted prior to installing Qora in contact with the ground.

General Rules and Tips

- Panels are installed from bottom to top.
- Avoid aligning vertical joints – stagger panels course to course.
- Qora should be installed over 7/16" OSB or 1/2" plywood sheathing that is in good condition and properly fastened. In addition, a weather-resistant barrier such as a standard housewrap, should be used.
- Qora Cladding should not be fastened directly into foam sheathing materials.
- Qora is approved for installations up to 40' above grade.
- Flashing materials must be present at all terminations, material transitions, and penetrations.
- Can be installed in any temperature.

Step 1

- Snap a level line where you want the bottom of your first course of panels to begin.
- 18" above that line, snap another level line.
- Attach the pest deterrent/ventilation strips on the top of the bottom line or where the bottom of the panels will be on the first course depending on the grade.



Step 2 (If using Qora Ledgesills in this installation. If not, proceed to Step 3)

- If not applying Qora panels to the entire wall while using Qora ledge sills as a transition into the next material, snap a level line where you want the transition to occur.
- Install ledge sills along this line, using a minimum three screws on the top and bottom flange.
 - › Use level to ensure level installation.
- Leave an 1/8" gap between sills & caulk gap with Mor-Flexx Gray Caulk.
- If coming to a corner, miter the sills, leaving a 1/8" gap – caulk with Mor-Flexx Gray Caulk.
- Install flashing on top of the sill (flash the transition of materials).



Step 3 – First Course

- Panels install left to right and bottom to top.
- Begin your first course by installing the first panel on the left side of the building, ensuring you do not extend past the corner of the structure.
 - › Follow the snapped line at 18" with the top stone section of the panel.
 - › Place 4' level on panel (on the stone or brick ledge, NOT the flange) to ensure panel is level.
- Continue panel installation on the first course until the remaining space requires cut panel, ensuring all panels are level with adjacent panels.
 - › Cut your panel as necessary.
- Seal all cut edges with recommended caulk.
- Note, panels should be butted up left to right of one another as closely as possible.



Step 4 – Remaining Courses

- For subsequent courses, ensure a staggered installation and follow the same procedure as the first course installation.
 - › For the second course, use a panel cut in half; for the third course use a full-sized panel; for the fourth course, use a panel cut in half, and so forth.
 - › You can also cut off panels from previous courses to begin the next course, as long as it creates a staggered appearance of the panels between courses.
- Ensure each course remains level.



Step 5 – Installing Accessories

- Install corners and trim over the top of panels using either brad nails or screws.
 - › Ensure the brad nails or screws are a minimum length of 2” to reach the substrate.
 - If using brad nails, adjust depth of fastener to just under the surface of the Qora trim. Be sure not to overdrive.
 - › Face fasten into the substrate through the accessory and panel.
 - › Cover nail/screw heads with color-matched caulk.
 - Mor-Flexx Gray for Bright Gray colorway.
 - › If desired for aesthetic reasons, caulk the edge seam between the panel and trim with Mor-Flexx Gray.
- Install fastener covers by generously adding construction adhesive on the back of the fastener cover, firmly pressing the fastener cover into the fastener cover slots and holding for 15 to 30 seconds.
 - › Let cure per manufacturer’s recommendations.



Step 6 – Touch Up & Finishing Installation

- For Qora Brick, if desired for aesthetic reasons, caulk seams between panels and fastener covers with Mor-Flexx Gray (this will match the mortar color).
- For both Qora Brick and Stone, ensure all visible fastener heads have been covered up with color matched caulk.

Caution:

Please ensure a proper mask and ventilation are used when cutting. A properly fitted NIOSH approved N95 series disposable particulate filtering face piece 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.

Always use proper safety equipment when working or installing cladding such as safety glasses, gloves, and a dust mask.

Cleaning/Maintenance

- Can be washed off with soap and water.
- For minimal efflorescence, installer should ensure fastener heads and cut edges are properly sealed with caulk.
- **To avoid efflorescence, DO NOT pressurewash.** Efflorescence crystals are soluble alkaline salt deposits that have been brought to the surface of the wall by the migration water within the wall. All masonry will have some degree of efflorescence after construction, which is not harmful and may disappear over time or which can be removed by post-construction washing.
- Do not use cleaning products with harsh chemicals. Simply clean with warm water, mild soap and soft brush to clean.



This installation guide depicts and describes the proper steps necessary to install Qora Cladding and Accessory products. The intent of the information provided is to simplify the installation process with expert advice and hyphenate how-to tips.

Since regulations and building codes are different in various parts of the country, please consult with your local building code office for actual requirements in your community.

For any application that does not meet our minimum requirements for proper installation (as per this installation guide) please be aware that Arcitell will not accept any responsibility or liability for failure caused by such application under the written warranty.



To learn more about the Qora Cladding Collection,
including new products and colors, contact your sales representative.
Also, visit www.qoracladding.com.



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