RealCast LIGHTWEIGHT CONCRETE 'Slab' Installation Instructions

IMPORTANT

The following installation instructions must be followed for warranty purposes and for optimal performance. InStone does not install panels or have control over the installation of the panels, therefore these Installation Instructions are to be used as guidelines. It is the responsibility of the installer to ensure all products are installed in accordance with these RealCast Installation Instructions. InStone assumes no liability for improper installation or personal injury resulting from proper or improper use or installation.

SAFETY FIRST

The operator of any power tools or other tools should be skilled and familiar with the correct use of each tool.
Proper safety gear must be worn at all times.

BUILDING CODE

Follow local Building Codes when applying RealCast. It is the responsibility of the installer to ensure that applicable building codes are met or exceeded.

PRODUCT COLORING:

RealCast is a natural concrete product, and some color variation is inevitable (and usually desirable). Please ensure, wherever possible, that the production dates on all product being installed side-by-side are the same or compatible. This will help ensure consistent coloring. Most of the time product from different dates will match up, but the installer should check this before installing. Also, there is the possibility for a panel to be slightly off-colored in a batch. Again, the installer should check all panels match before installing.

RECOMMENDED TOOLS:

Miter Saw and/or Table Saw	Drill	Measuring Tape
Pencil	Level	10 oz. Caulking Gun
Stagger Stencil	Drywall Saw	Utility Knife
Safety Glasses	Earplugs	Dust Mask

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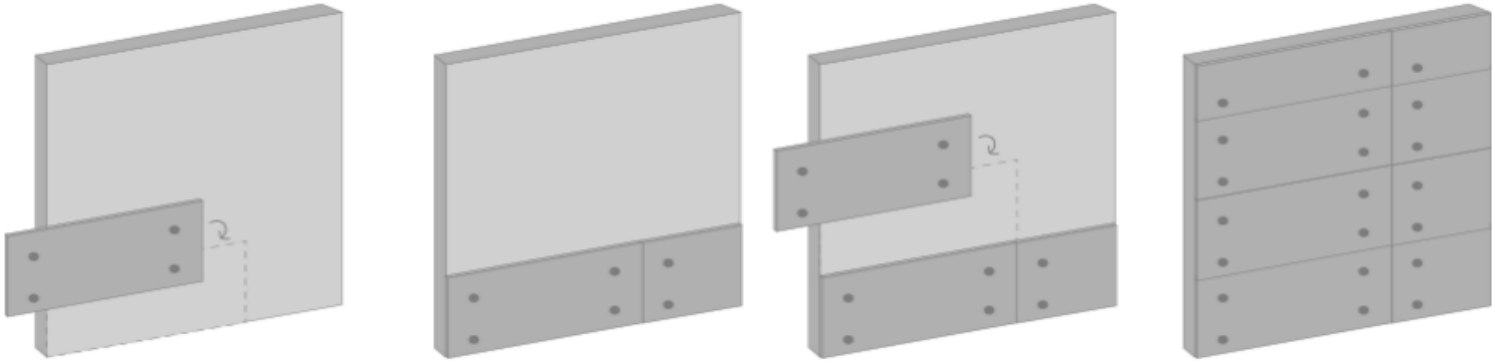
Panel Installation

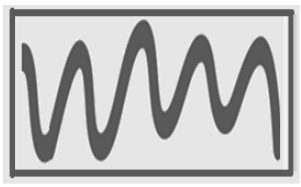


1. MEASURE and MARK: Before starting, the wall should first be measured, and panels laid out. A level or tape measure should be used to ensure each row is level. First decide if you want a full panel to be in the center/middle. If so, it should be installed first and then work from that panel towards each side. For exterior applications, the panels should be 1-2" off the ground to prevent water saturation.
Using a measuring tape, mark the backside with a pencil or marker, and then use a straight edge to mark a cutting line.

2. CUT: The panels are easiest cut from with backside (flat) down. Use a miter saw or circular saw with masonry blade to make the vertical cuts. For cutting panels lengthwise, a table saw, or circular saw is recommended. To cut outlet and fixture holes, use a hole-saw or high-speed drill to cut the opening. The final (top) piece will need to be cut to the necessary height so the panel fits flush with the ceiling or top of the wall.

3. FASTEN: Fastening will depend on whether you are installation on an Interior or Exterior wall, and what substrate you are fastening to.

INTERIOR: Installing over existing concrete, brick, or cinderblock, plywood, or drywall. Simply fasten product using recommended (TiteGrab adhesive, Non-expanding foam adhesive, or a polymer fortified thin-set mortar like Laticrete Platinum). Adhesive should be applied around the perimeter of the panel approximately 1 inch in from the edge, and then applied in a serpentine pattern.



To hold the panels in place while the adhesive sets, 18 gauge 1 ¼" brad nails can be put into the face of the panel.
This will leave small pits that are typical in natural concrete work. RealCast Finishing Grout can also be used to fill those pits.

EXTERIOR:

a) If installing onto exterior concrete, brick, or cinderblock, or any substrate can be glued onto, simply follow the INTERIOR instructions above.

((If installing onto an exterior wood wall or drywall, the wall must first be sealed. There are many methods for this and will depend on the local climate and building code))

b) If the substrate cannot be glued onto, screws can be used. Simply pre-drill a pilot hole and screw through panel and into your substrate. The hole should be filled in with the supplied matching RealCast Finishing Grout to create a seal when done. If further sealing is required, the Stone Finish caulking, another exterior grout, or exterior sealant can be used in the joints between panels.

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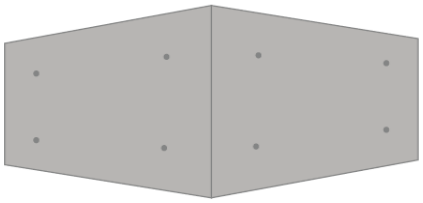
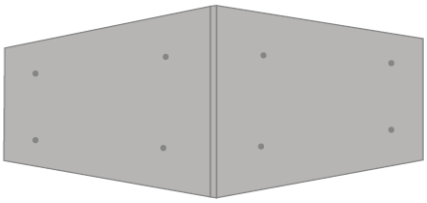
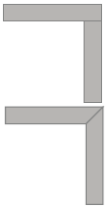
Corner Installation

An outside 90 degree mitered corner.



An outside 90 degree butt corner.



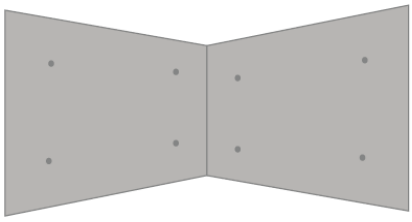


BUTT CORNER (right drawing) - the panels can simply be butt together to create a finished corner.
If any cut edges are exposed, the appropriate coordinating RealCast Finishing Grout should be used to finish the ends.

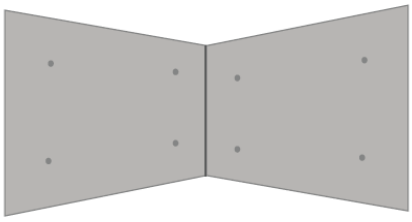
MITER (left drawing) - the panels can be mitered to create a more finished/continuous look. Cut the panel at a 45-degree angle, then use the same piece to continue the return. If there is a gap, tighten screws or nails and fill unwanted gaps with the appropriate RealCast Finishing Grout.

INSIDE CORNERS

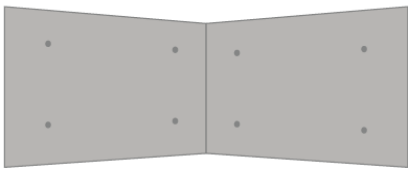
An inside 90 degree mitered corner.



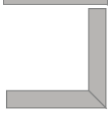
An inside 90 degree butt corner



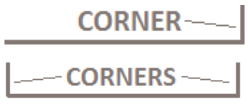
An inside 130 degree mitered corner.



BUTT CORNER (right drawing). Butt two panels together at the inside corner. If there are any unwanted gaps, the RealCast Finishing Grout can be used.



MITER (left drawing) - Cut the panel at a 45-degree angle, then use the same piece to continue the return. If there is a gap, fill unwanted gaps with the appropriate RealCast Finishing Grout.



IF wall has ONE corner = it is better to begin at a corner to ensure a cut is not made through the face circles.
IF wall has a corner on BOTH ends = start installation on the most visible corner.

ELECTRICAL SWITCHES & PLUGS

Make markings on the backside of the panel, then use a hole-saw or high-speed drill to cut the opening. A tile saw, miter saw, or circular saw can also be used. Cutting from the backside is very important to help prevent cutting beyond your desired shape.
An electrical extension box may be used to extend the electrical outlet to be flush with panels.

You must first measure the thickness of the RealCast panel(s) and extend the electrical outlet out the appropriate amount to be flush with the panel. Ensuring a tight fit, install the panel(s) around the box and reinstall the cover plate on the panel face.