



Composite Siding Installation Instructions

Safety

ICON is a composite product containing: Fly ash (68131-74-8), Iron oxide compounds, Quartz (14808-60-7), Solid Polyurethane (9016-87-9), Glass Fibers (65997-17-3). For additional information, read the Safety Data Sheet (SDS) for complete information.

- When installing, use Personal Protective Equipment (PPE) as described in Sections 7 and 8 of the Safety Data Sheet (SDS).
- Other safety equipment, such as eye protection, hard hats and cut-resistant gloves, should be worn in accordance with jobsite safety requirements.
- To minimize the risk of potential skin irritation from dust, we recommend wearing long sleeves when cutting.
- Do not breathe dust generated from cutting this material as they may contain silica.
- Cut siding in an open, well-ventilated area.
- If ventilation is not adequate to limit exposure, wear a NIOSH-approved disposable respirator (N95). To ensure adequate ventilation, work outdoors or use mechanical ventilation to reduce potential exposure to below OSHA Permissible Exposure Limits (PELs).
- Wash yourself thoroughly after handling.
- Wash work clothes separately from other clothing.
- If stored outdoors, keep covered and off the ground.

Fire

This product will burn. Firefighters should wear full-face, self-contained breathing apparatus and impervious protective clothing to avoid smoke inhalation and lack of oxygen.

Dust Collection

Avoid contact with skin and eyes during cleanup of dust. Persons not wearing appropriate protective equipment should be excluded from area of spill until cleanup has been completed. Pick up large pieces. Vacuum dust using a high-efficiency particulate air (HEPA) filtered vacuum. If sweeping is necessary, use a dust suppressant such as water. These procedures will help

minimize potential exposures. Scoop up material and put into a suitable container for disposal according to applicable rules and regulations.

First Aid

If dust particles are inhaled: Move to fresh air, apply artificial respiration and/or oxygen if necessary and get medical attention.

In case of skin contact: Remove contaminated clothing, launder before reuse, and wash exposed skin with soap and water. If irritation develops or persists, seek medical attention.

In case of eye contact: If foreign matter enters eyes, immediately flush with large amounts of water for at least 15 minutes or until irritation subsides. Do not rub or scratch your eyes. Dust particles may cause the eye to be scratched. Seek medical treatment if irritation persists.

If swallowed: Consult a physician if unusual reaction occurs. Product should not be ingested or eaten.



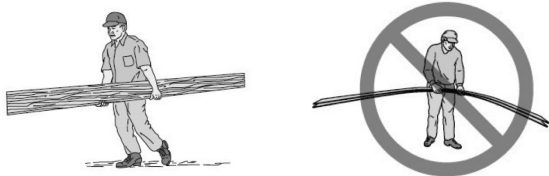
Temporary respiratory irritation may occur. Avoid breathing dust. Contaminated work clothing should not be allowed out of the workplace. Wash thoroughly after handling. Wear protective gloves and NIOSH-approved respirator if exposed to dust.

Transporting and Storing at Jobsite

- Do not store pallets more than three (3) units high.
- ICON should be stored away from areas where falling objects or other construction activity may inadvertently cause damage.
- Ideally, ICON™ should be stored indoors and away from direct sources of heat and sunlight.
- If storing ICON outdoors at distribution, protective bonnet/shroud should be kept on the product at all times to prevent inadvertent surface damage.
- If you are transporting ICON to a jobsite, keep the planks flat and supported along their entire length.
- When storing ICON at the jobsite, take the following precautions when storing planks:
 - Store ICON on a flat, level surface.
 - Do not store in any location where temperatures may exceed 130°F (e.g., on blacktop pavement during unusually hot weather or under dark tarps or plastic wraps without air circulation).

Proper Handling

Always carry ICON siding by holding the narrow edge to make it easier to handle and avoid potentially dragging it along the ground surface.



Required Tools

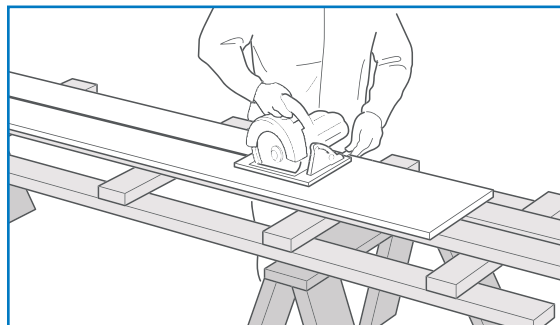
Use a power circular saw or mitre saw with a sharp, carbide-tipped blade designed for cutting wood. Do not use fine-tooth metal cutting blades.

You will also need:

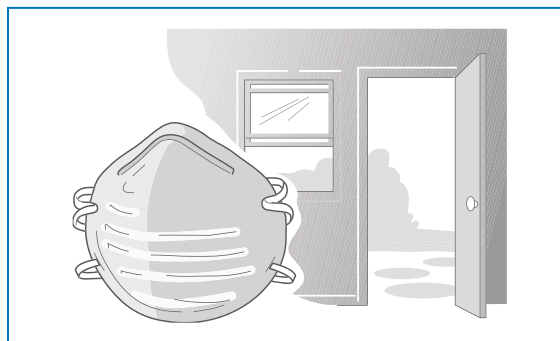
- | | |
|-----------------|--------------|
| • Hammer | • Jigsaw |
| • Tape measure | • Level |
| • Utility knife | • Chalk line |
| • Square | • Router |

Cutting Instructions

When ICON is cut or drilled, it will create dust. This dust may contain crystalline silica, which can pose a health risk. In order to minimize dust inhalation when cutting, wear a dust mask. To ensure adequate ventilation, work outdoors or use mechanical ventilation to reduce potential exposure to below OSHA Permissible Exposure Limits (PELs).



IDEAL: Cut outdoors and use cutting tools that minimize dust.



CUTTING INDOORS: Play it safe by providing good ventilation and wearing a respirator.

For more information on OSHA Permissible Exposure Limits: <https://www.osha.gov/dsg/annotated-pels/>

For more information on Respiratory Protection Program: https://www.osha.gov/dte/library/respirators/major_requirements.html and / or <https://www.osha.gov/Publications/osa3079.pdf>

For more information on Silica: <https://www.osha.gov/dsg/topics/silicacrystalline/>

Wall Preparation

Building codes and regulations vary throughout the country. Be sure to check with your local code official or governing body for the building requirements in your area.

ICON™ is designed to be installed in horizontal applications only.

Walls must be framed 16" OC to allow for proper fastener placement.

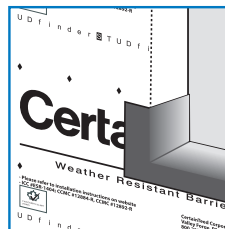
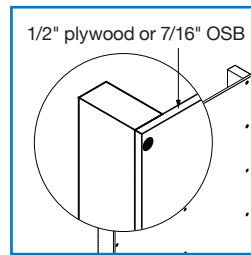
ICON **must** be installed over a solid, flat substrate with nail holding strength such as 1/2" plywood or 7/16" OSB.

- Shimming may be necessary to ensure wall is straight and flat.
- On wavy walls, shim out low spots in the wall to ensure the plank is straight. This helps keep the stack-lock fully engaged and ensure optimal performance.

Siding alone is not a watertight barrier. Before applying ICON siding, make certain the substrate is watertight. Apply flashing around areas, such as windows, doors, other openings, and corners, so as to shed water to the exterior. We recommend the use of CertaWrap™ housewrap as a weather resistant barrier. (Refer to the CertaWrap Installation Instructions CW005).

Accessories, such as Restoration Millwork® Exterior Trim (including pocket trim boards) or CertaTrim® Exterior Trim boards can be installed after the siding is installed.

Note: If butting the siding up to the trim, the trimboards should be installed prior to the siding.



Clearances

Maintain a minimum of:

Always refer to your local building codes to ensure compliance.

- 1" from grade
- 1" from slab/concrete
- 1" from roof line

STUDfinder™ Installation System

ICON incorporates the patented STUDfinder Installation System which is designed for accurate and secure installation. The indicator letters make it easy to locate studs and help ensure accuracy.

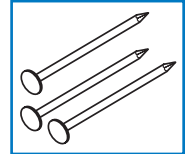
- Locate the first stud and fasten the siding to it.
- Notice which STUDfinder letter appears above the nail.
- Go to the next repeat of the letter to find the next stud.

Note: Adjacent planks may not use the same letter as your initial plank. Measure 16" from the last stud to determine the subsequent letter for the new plank.

Fastening

ICON is designed to be hard-nailed.

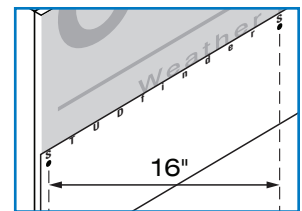
Standard roofing nail guns can be used to install ICON. Nail guns should be adjusted to ensure nail head is flush with the surface. Hot dipped galvanized roofing nails should be used.



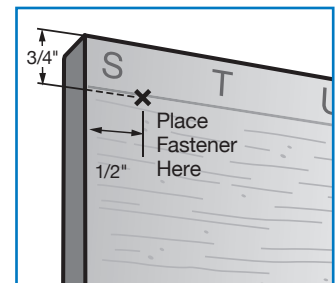
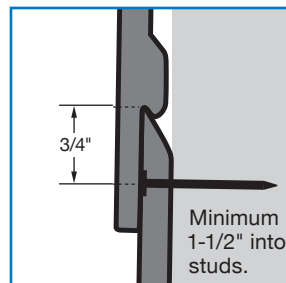
Do not use electroplated nails.

- Use a fastener that is long enough to penetrate a solid wood substrate and wood stud a minimum of 1-1/2", such as a 1-3/4" galvanized roofing nail.

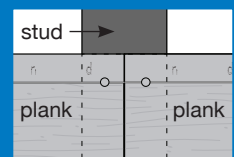
- Fasteners need to be installed every 16" OC. Fasteners must penetrate a framing member, as sheathing alone will not provide adequate support or holding power.



- Position the nail in the nail line located 3/4" from the top of the plank under the appropriate letter on the STUDfinder for 16" OC.
- Place one fastener 1/2" from the edges of the plank. Butt joints must be fastened on a stud.



ProTips™: Place two fasteners at the edges of the plank to further limit plank movement due to temperature change.



First Course

Install Starter Strip

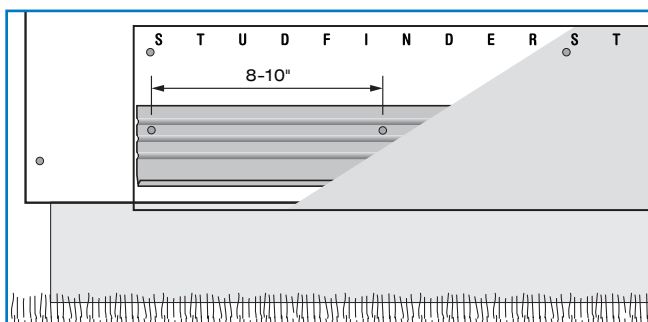
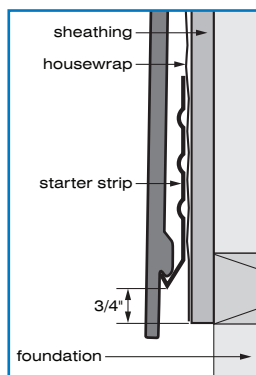
Maintain a minimum of 1" clearance from grade.

Maintain minimum of 1" from slab/concrete

Note: It is very important that the starter strip is installed level. Failure to install the starter strip level will make it difficult to properly engage the stack lock and all the subsequent courses will not be level.

Note: Refer to local building codes to ensure compliance.

- Strike a level line around the house and install starter strip. The starter strip should be installed so the bottom is 3/4" up from the sheathing around the house. This will allow the siding to be 1/4" below the lowest point of the sheathing to create a more pleasing look.
- Nail the starter every 8" to 10"
- Be sure to leave 1/4" space between the starter strips for expansion. Make sure to leave 1/4" from the inside and outside trim.



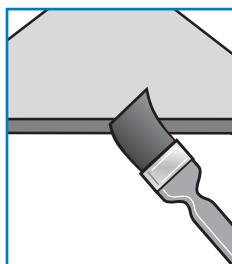
Install first course

- Starting from either side of the wall, insert the bottom return leg into the starter.
- **Start at one end of the plank at a stud and using the STUDfinder system to locate the next stud continue fastening to the end of the plank.** To maintain a level line, make sure the plank is seated into the starter strip.
- Complete the nailing of the siding.
- Install the next plank by butting the plank tight to the adjacent installed plank. All butt joints must be fastened on a stud 1/2" in from the butt joint.

Note: ICON siding does not require flashing, however as a best practice adhere to local building codes. If a course requires more than one plank, it may be necessary to trim the first plank a few inches for the butt joint to land on a stud.

Field Cuts and Sealants

ICON™ requires priming or sealing field end cuts. The only exception is where the field cut will be hidden in a pocket accessory protected from UV light exposure.



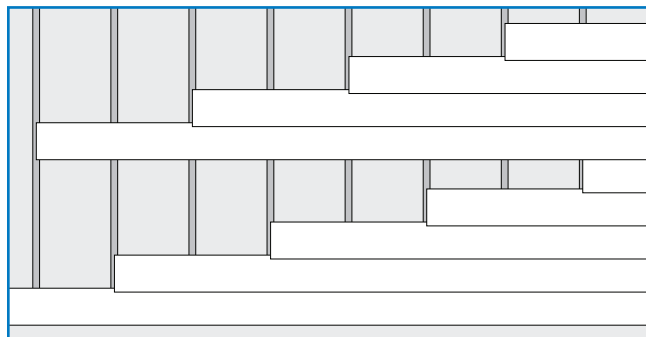
Cutting Recommendations:

- Use a carbide-tipped blade.
- Planks should be cut face up to minimize damage to the face when cutting.
- When cutting multiple planks at a time make sure that they are secured together and even to avoid uneven or jagged cutting.

- Always wear PPE when cutting planks in a non-ventilated area.
- Use finish paint to seal any cut edges on the planks.

Continuing Up the Wall

- To ensure proper appearance, stagger joints a minimum of 32" as you move up the wall.
- Butt joints need to be fastened at a stud.

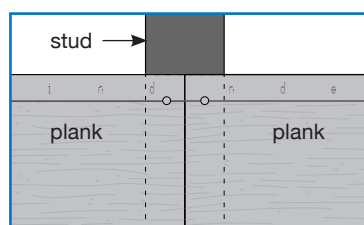
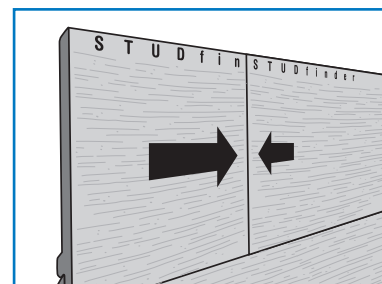
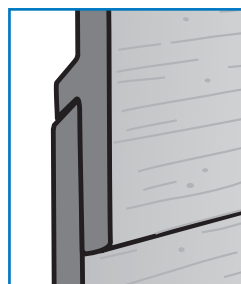


- Do not align the butt joints. For the best appearance, install three courses before repeating butt joints.
- To maintain 7" exposure, ensure plank is fully engaged with previous plank using the stack lock feature. Start nailing plank from the end closest to previously installed plank and work your way towards the other end.

ProTips™: If you have to pause installation due to inclement weather (snow or ice), consider using cut pieces or painter's tape over the last installed course to help prevent build up of snow and ice that could prevent proper engagement of stack lock once the installation has resumed.

Butt Joints

Make sure any field cuts on the butting planks have been properly sealed. Butt planks together tightly and fasten. Follow local building codes for use of flashing at the seams.



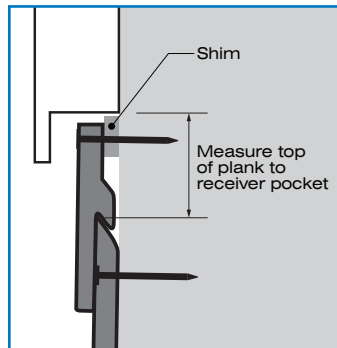
Butt joints MUST be fastened on a stud.

ProTips™: Temperature fluctuations may cause ICON to have minimal expansion and contraction. CertainTeed recommends adding a durable, non-corrosive material behind butt joints to hide housewrap in the event that there is movement at the joints.

Finishing the Top Course

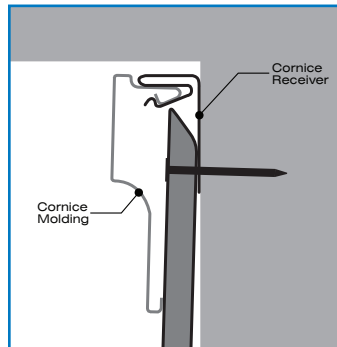
Option 1. Trim piece with a pocket.

To install the final course of siding, cut and face-fasten the planks using shims as needed to keep the siding from tipping back against the wall. Leave room to apply trim such as Restoration Millwork® J-Pocket Trimboards pocket side down to cover fasteners.



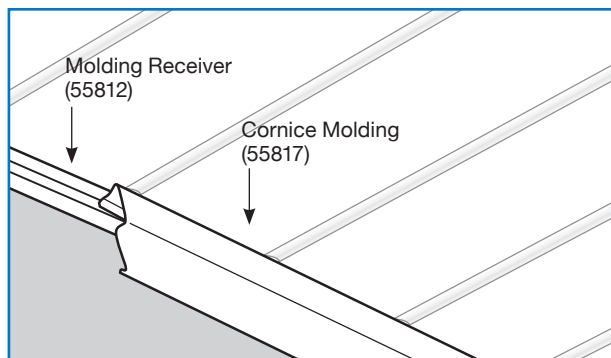
Option 2. Trim piece with no pocket.

- ICON™ can be butted up to the trim, such as with CertaTrim®.
- Seal the cut edges.
- Paint the nail heads.



Option 3. Cornice Receiver and Cornice Molding or Finish Board.

- Install Cornice Receiver (55812).
- Install plank, seal the cut edges.
- Snap Cornice Molding (55817) or Finish Board (55815) into receiver.



Option 4. No trim.

- ICON can be butted up to the soffit. Make sure your cut is straight.
- Install plank (verify that all cut edges are sealed).
- Use paint to touch-up nail heads.

How to Notch Windows

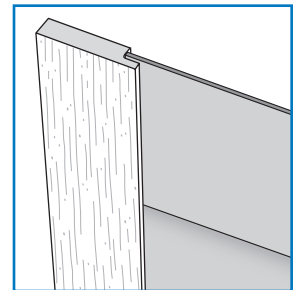
Use a jigsaw to cut needed openings and make sure the seal cut edges leave a 1/8" clearance between trim to allow for caulking.

Accessories and Trim

Restoration Millwork Trimboards can be installed **after** the siding if using J-Pocket accessories. ICON planks are rigid, so installing the trim after the siding allows for working with planks between obstacles.

How to Finish Corners

Leave a 1/4" gap between plank and corner and caulk to provide a finished appearance. Another option is to use a pocket corner.

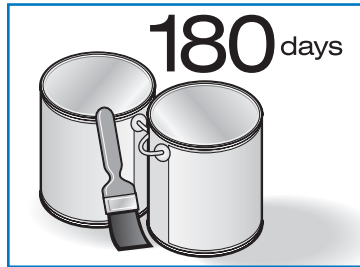


ProTips™: CertainTeed highly recommends the use of pocket accessories for speed and ease of installation, aesthetics (hides bad cuts). Also cut edges that will be hidden in pocket accessories do not need to be sealed, since they will not receive UV exposure. If you are using pocket accessories, allow up to 1/4" for clearance.

- If using standard trim, butt product tight.
- If using standard trim and caulking, follow caulk manufacturers recommendations for clearance between siding and trim.

Painting at the Time of Installation

The failure to follow these requirements will void the warranty on the product. CertainTeed covers only manufacturing defects of the ICON™ product itself:



- Painting ICON within 180 days of installation is required and failure to do so will void the warranty.
- If coated on-site the paint must be applied per that manufacturer's application instructions.
- If ICON is prefinished by a third party, please refer to the ICON prefinishing guidelines for specific information on the acceptable process.

CertainTeed provides no warranty for the coating or the workmanship of the prefinishing. Any issues relating to the coating must be directed to the third-party prefinisher and/or the coating manufacturer.

In addition, please review CertainTeed's Care and Maintenance instructions for ICON. The coating applied to ICON must be properly maintained for the ongoing performance of the product.

The coating must be applied within 180 days of the installation.

- Make sure the surface of the product is free of dirt, debris or other contaminants prior to paint application.
- For field-applied painting, CertainTeed requires the use of a high quality exterior grade acrylic latex paint. Some examples are listed below. The paint manufacturer's recommendations for use and application of the paint must be followed.
 - Behr Marquee® Exterior Enamel
 - Behr Premium Plus Ultra®
 - Benjamin Moore Aura® Exterior
 - Benjamin Moore Regal® Select Ultra
 - Glidden® Exterior Premium Paint
 - PPG Manor Hall® Exterior
 - Sherwin Williams All Surface Enamel
 - Sherwin Williams BP Siding Plus
 - Sherwin Williams Resilience®
 - Sherwin Williams SuperPaint®
 - Valspar® Duramax® 365
- ICON may be painted in a variety of colors, including dark colors, as the product is not prone to excessive movement due to heat buildup. However, semi-transparent stains or coatings must not be used on ICON due to lack of sufficient UV protection.
Use of semi-transparent stains or coatings will void the warranty.

Note: CertainTeed is not liable for paint used on ICON and/or the results of its use.

Care and Maintenance – Cleaning

The coating applied to ICON must be maintained for ongoing performance of the product. Failure to maintain the coating will void the warranty. Refer to the painting section for more details on coatings. ICON painted planks will become dirty like any product exposed to atmospheric conditions. In areas not exposed to direct sun and rain, periodic washing with a soft bristle brush and clean water from a garden hose may be necessary to remove surface dirt.

Maintaining Paint

In the event that the painted surface becomes scratched or begins to flake, chip or crack, remove any damaged paint and repaint immediately to ensure the long-term performance of ICON to maintain warranty coverage. For best results please refer to your paint manufacturer's written specifications for application rates, maintenance requirements and repainting instructions. See list of field painting requirements in the *Painting at Time of Installation* Section.

Note: We do not recommend power washing ICON as it can cause moisture intrusion, damage, and/or discoloration.

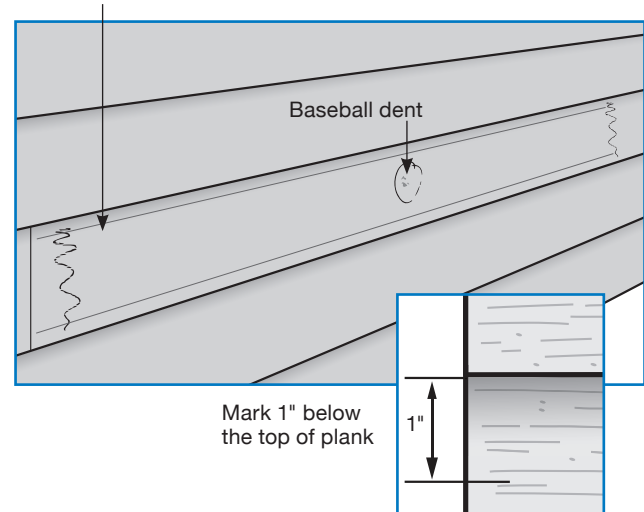
How to Replace a Damaged Plank

Required Tools:

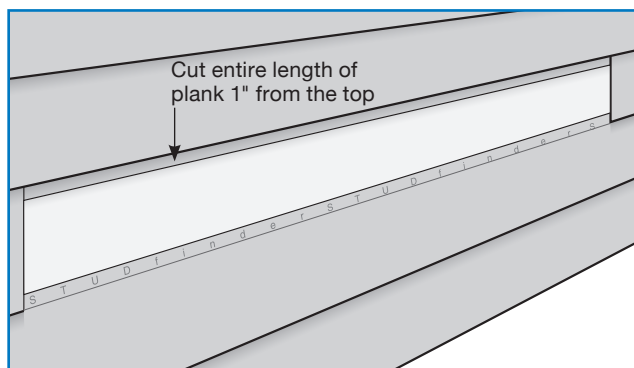
- Circular saw to cut plank out
- Oscillating type tool to cut nails off
- Hammer
- Tape measure
- Dusk mask
- Safety glasses

Step 1. Remove Damaged Plank

Mark damaged plank to identify which plank to remove.



Step 2. Using a circular saw, cut entire plank length 1" from top.



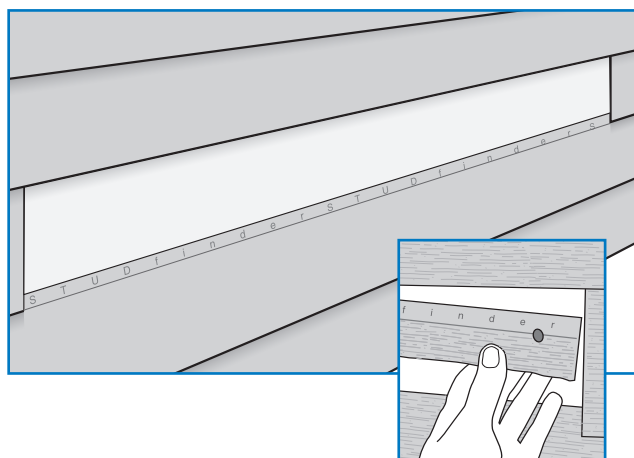
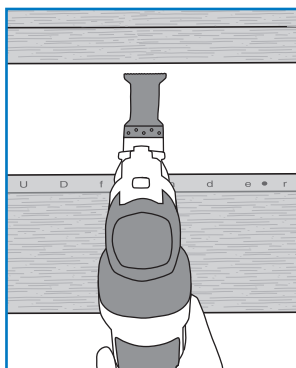
Be careful not to damage mating plank when removing. Make sure to repair any damage to the housewrap before installing the new plank.

Step 3. Remove the bottom part of the damaged plank by tilting plank outward and up.

Step 4. Remove old nails using an oscillating tool.

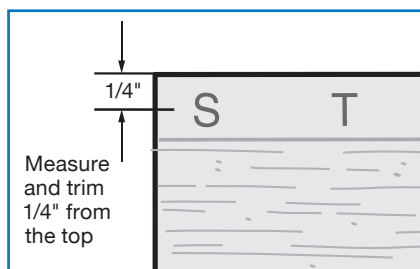
Make sure to use a blade designed to cut steel.

Step 5. Remove top section of plank.



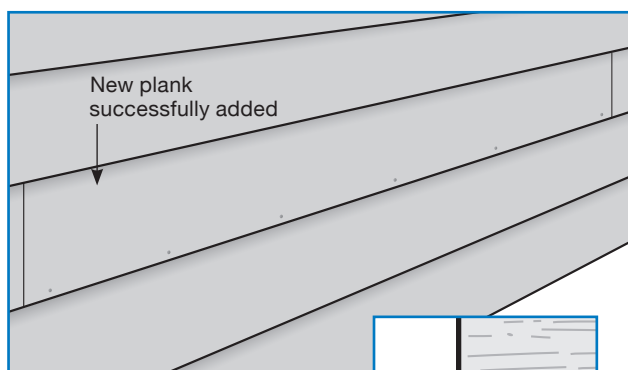
Step 6. Trim 1/4" off the top of the replacement plank.

Overall width should be 8".

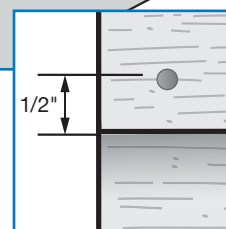


Step 7. Insert replacement plank.

Step 8. Fasten replacement plank by face nailing 1/2" above the section being replaced.



Face nailing
1/2" above the
replacement
plank





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