

Installation Guide

IMPORTANT: Read all sections before starting.

For the most up-to-date information, visit our website: leadvisioninternational.com

Before installing a composite wall cladding, it is recommended to check with national building codes for any special requirements or restrictions. The diagrams and instructions described in this guide are for informational purposes only and are not intended to replace the installation by a licensed professional. Any construction or use of our product must comply with all local zoning or building codes. The consumer assumes all risks and responsibilities related to the construction and installation of this product.

SECURITY

For any type of construction project, it is necessary to wear appropriate safety equipment to avoid any injury. Leadvision recommends (but is not limited to) the following safety equipment when handling, cutting, and installing wallcovering: gloves, respiratory protection, long sleeves, pants, and safety glasses.

TOOLS

Standard tools for woodworking can be used. It is recommended that all blades have a carbide tip.

ENVIRONMENT

A clean, smooth, solid surface is required to properly install the wall cladding. Always check with national building codes before installing any type of wall cladding. If installation is not completed immediately, Leadvision products should be stored on a flat surface at all times. They should never be placed on an uneven surface.

PLANNING

Plan a diagram before you start to ensure the best possible appearance. National building codes and zoning ordinances generally apply to permanent structures, that is, anything anchored to the ground or attached to the house. So almost all types of wall cladding require permits and inspections. We recommend developing a project plan that you intend to achieve to minimize errors and build a perfect wall cladding.

CONSTRUCTION

This material is NOT intended to be used as a column, support post, beam, silt, stud or other main supporting element. It must be supported by a substructure conforming to the code.

STATIC

Static formation is a natural phenomenon that can occur with plastic products. A dry and windy environment can increase it, but the whole varies according to the climate and the wear of the coating.

VENTILATION

Leadvision wall cladding CAN NOT be installed directly on a flat surface. It must be installed on a substructure, so that there is adequate and unobstructed airflow under the cladding to prevent water absorption. A minimum of 25 mm (1 inch) below the surface is required for proper ventilation throughout the wall cladding to allow air to circulate.

HEAT AND FIRE

Caution: Excessive heat from coatings can come from external sources, such as fire or reflection of sunlight from energy-efficient windows: low-E glass can potentially damage coating products. Low-E glass is known to prevent passive heat gain inside a structure and can cause an unusual accumulation of heat on the exterior surfaces. This rise in surface temperatures, which exceeds that of normal exposure, may eventually melt, sag, warp, discolor coatings, increase expansion / contraction, and accelerate weathering.

Current or prospective Leadvision customers who have concerns about the possible damage caused by Low-E glass should contact the Low-E glass product manufacturer to find a solution.

FASTENERS

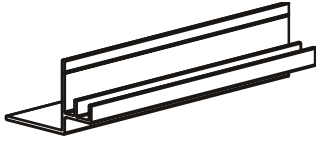
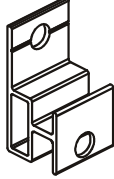
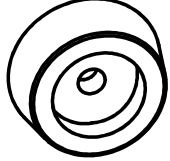

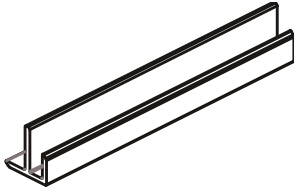



When installing composite cladding products, all screws must always be driven at a 90-degree angle to the surface of the boards. Screwing should never be done on the cladding.

Use a water soluble and cleanable pen, a rule to make the reference line, DO NOT use a permanent marker pen that could leave spots on the coating.

Stainless steel anchors / fasteners specific for the Leadvision composite cladding are required during installation. Unsuitable anchors / fasteners can cause fungi / bulges on the cladding.

Anchors / fasteners that are not recommended for the Leadvision composite could potentially damage the cladding. If you are unsure which anchors / fasteners to use, contact your manufacturer for more information.

Wall cladding board parts

Product	Purpose	Part
EPR07	Starting Trim, Used for the installation of the first board	
EPR05	Used at every joist to fix each board to the joist	
EPR08	Spacer washer	
EPRWCLAD	Wall cladding	
EPR01	Finishing trim	
EPR02	Jointing / separation trim	
EPR03	Outer corner trim	
EPR04	Inner corner trim	

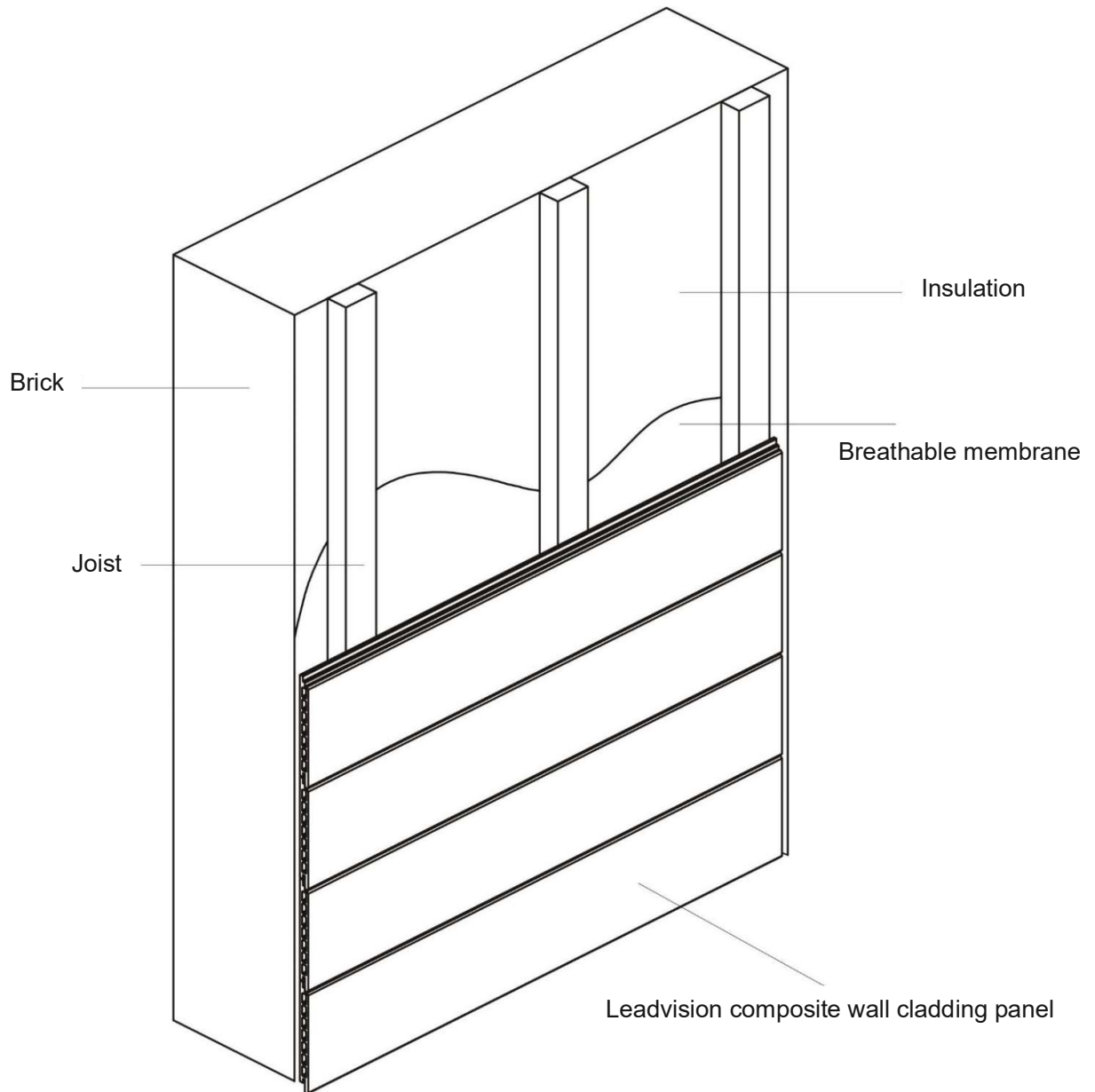
**** Note:** During the installation of composite wall cladding and trims, the required expansion space (board length x 3%) must be maintained in the direction of the board length.

If a different installation is planned, consult a professional before installation.

JOISTS

We recommend metal joists or pressure-treated wood joists. Joists supporting boards must not be more than 400 mm or 16 inches apart (center to center). Make sure that the joists are present around the windows, fascia's, soffits, guttering, air vents etc.

See the typical diagram of the structure of a house; a professional should be consulted before any installation.



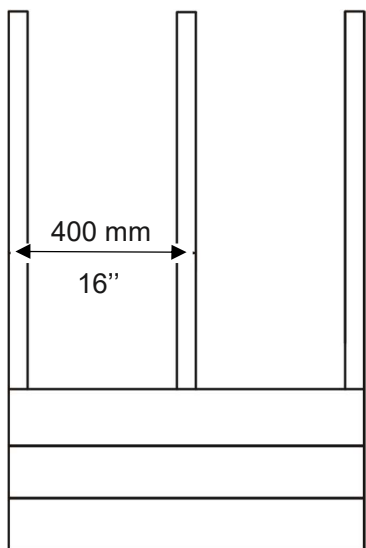
JOIST INSTALLATION

A building professional should be consulted regarding vapor barriers and insulation for your project. The joist thickness should be more than 25mm to ensure the enough space for air circulation and the space should not be blocked by the barriers.

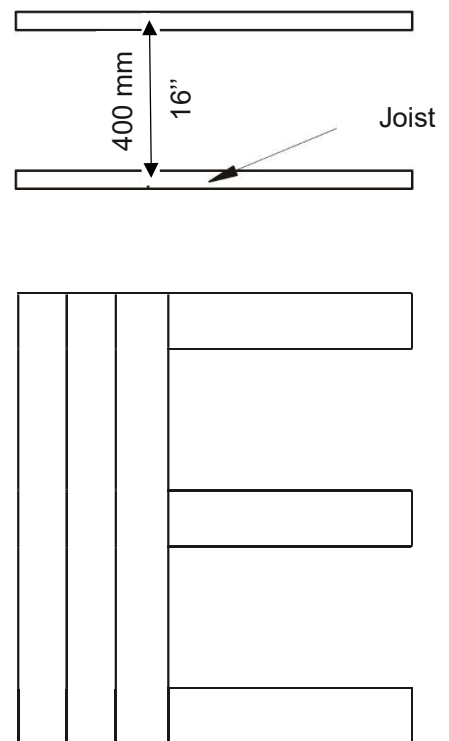
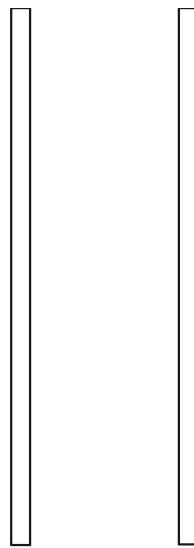
The joists must be perfectly level before the installation of the composite wall cladding. Proper spacing of the joists (400 mm- 16 inches) is necessary so that the boards do not bend. Repeat steps 1 and 2 of the starting trim on page 8 of this guide.

When joining wall cladding boards, always double the joists so that each board is seated on its own joist. Joining molding EPR02 will be necessary at this stage.

**** NOTE:** The installation of the composite wall cladding is different due to the expansion / contraction of the product. We recommend that the cladding boards be cut as little as possible and that the EPR02 joint molding be used as often as possible when joining two boards.



Horizontal Installation



Vertical Installation

LOCKING THE CLADDING BOARDS

Each fastener has a bottom hole that is used to block a board in the center of it. The cladding boards are subject to expansion / contraction; by blocking them centrally in one direction, this allows the expansion / contraction to occur at the ends only and prevents the cladding board from moving from right to left.

Diagrams 1 to 3 shows how to lock the wall cladding boards.

Note: DO NOT LOCK EVERY BOARD. General rule is every board will only need one clip locking/ fixation point.

Note: We recommend using the EPR02 joint trim if you need to join two boards together.

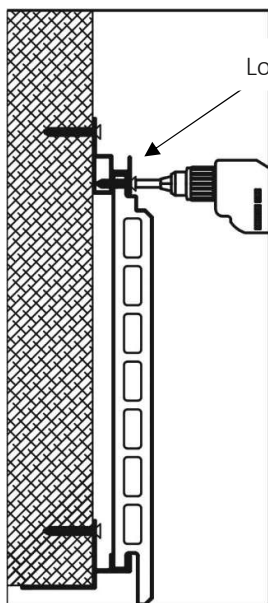


Diagram 1

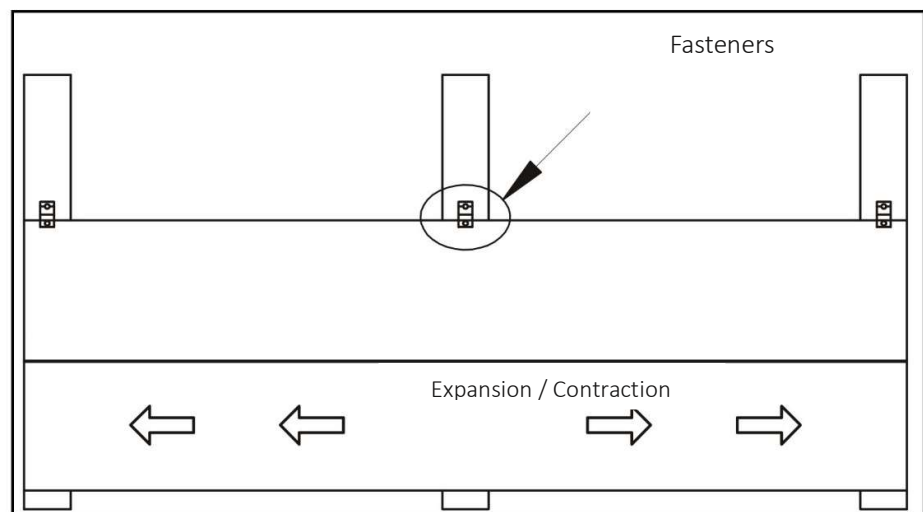


Diagram 2

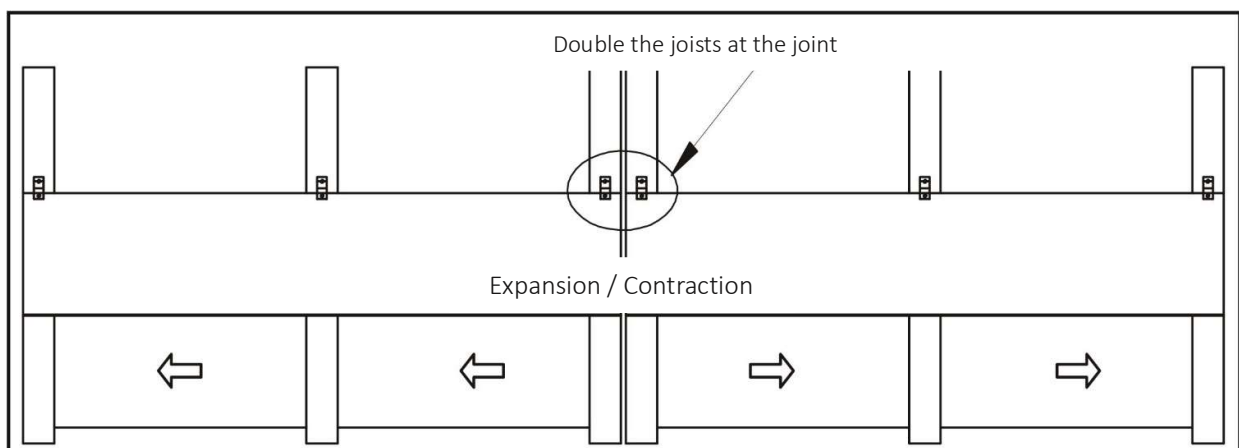


Diagram 3

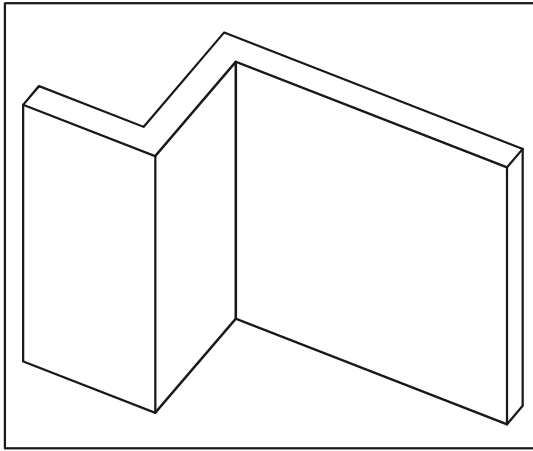


Diagram 4

- 1 Installing the first joist

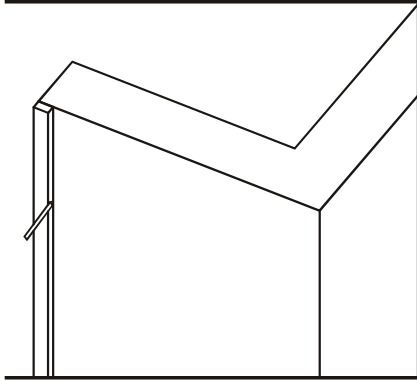


Diagram 5

- 2 A maximum of 400 mm (16 inches) from center to center of the joists must be respected.

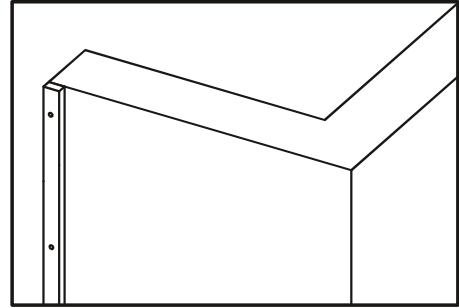


Diagram 6

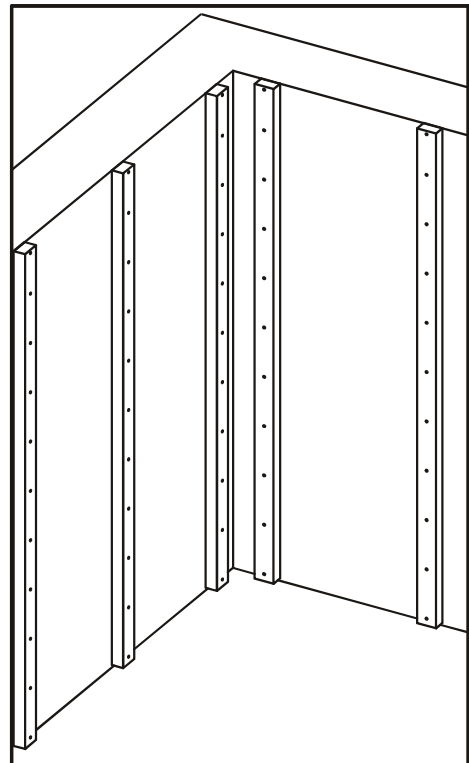


Diagram 7

INSTALLING THE TRIMS

- 1 Pre-drill and install the EPR07 starting trim at the bottom of the joists. Install the EPR07 starting trim at the bottom of the joists one after the other.

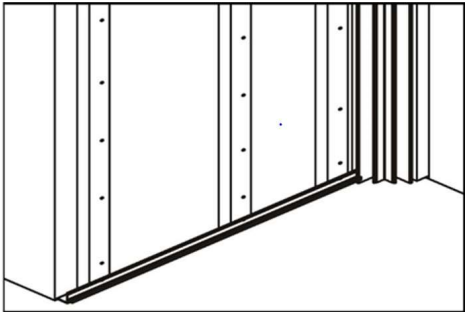


Diagram 8

- 2 You must always start with the installation of all trims before laying composite panels.

Above cross section

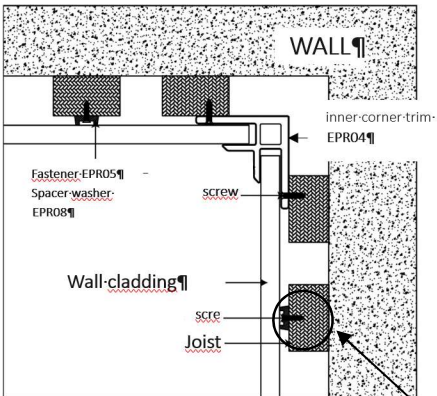
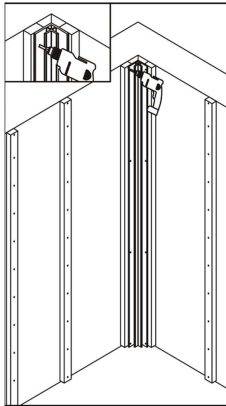


Diagram 9

Spacer washer needed for the last cladding boards.



Above cross section

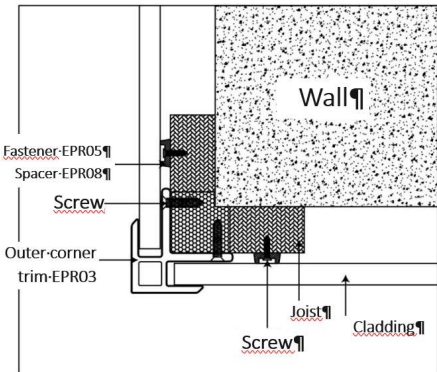
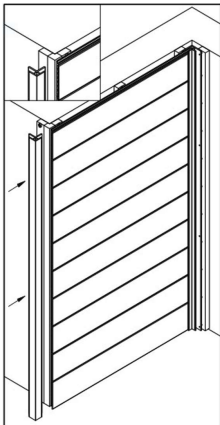


Diagram 10



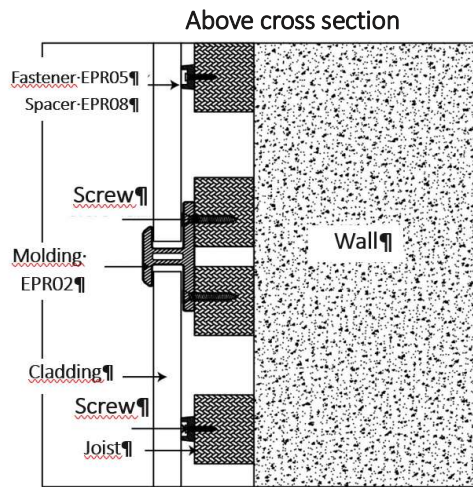


Diagram 11

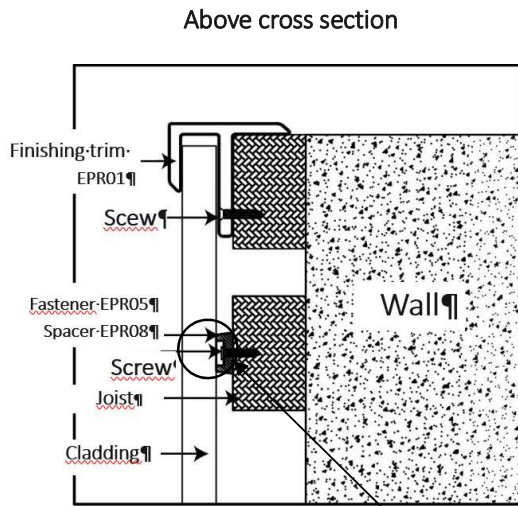
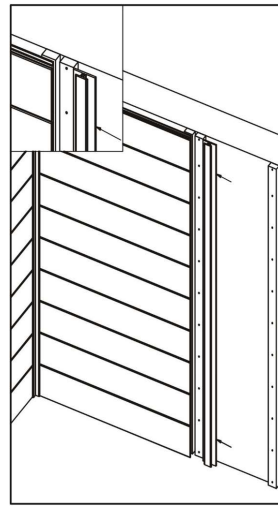
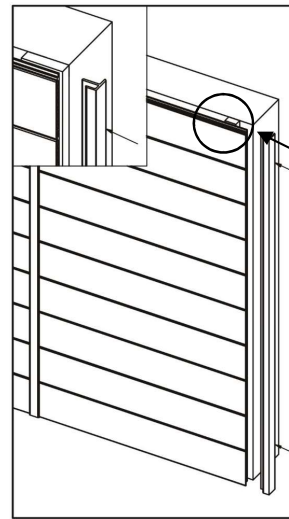


Diagram 12

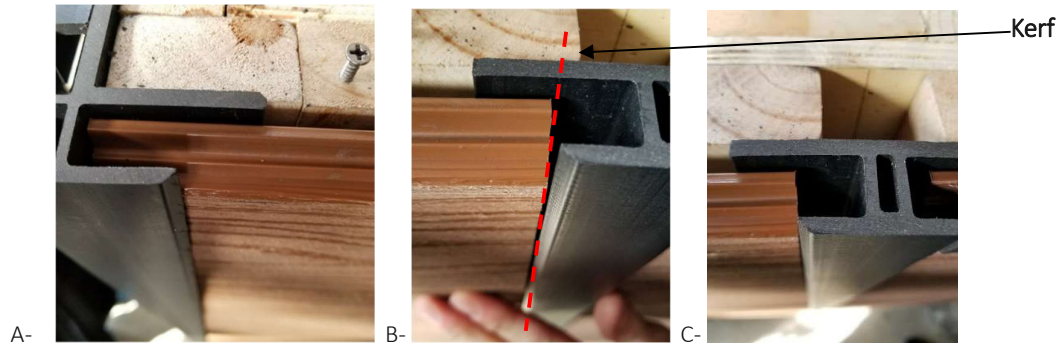
Spacer washer needed for the last cladding boards.



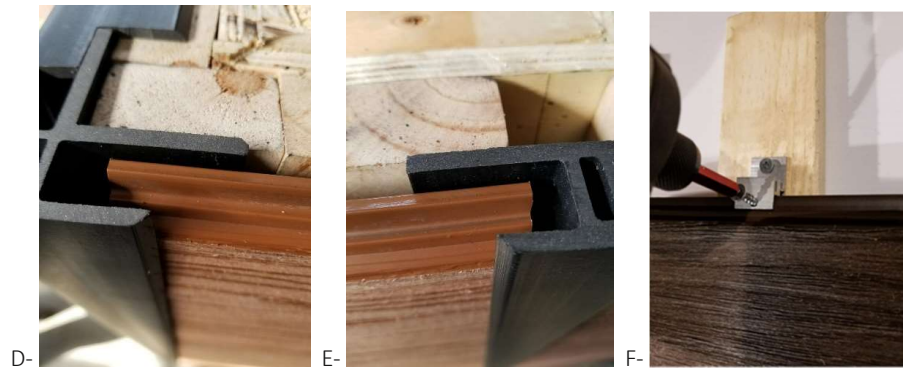
Quick Installation Tip

Here are the main steps that show how to install the boards, once the two trims are installed on both ends of the wall to cover.

1. You must insert one of the ends of the board at the bottom of one of the trim, the one on the left or the right, (picture A) and measure the length from the bottom of the trim to the edge of the next trim (pictures B et C).
2. You will need to cut/saw excess board with a carbide blade.



3. Afterwards, you must center the board between the trims (pictures D et E).
4. Next you will have to block the center of each of the boards (photo F) at the bottom of the fastener with a screw.



- 1 Cutting out a notch at both ends must be required to ensure the trim fits around the joists as shown on diagram 13.

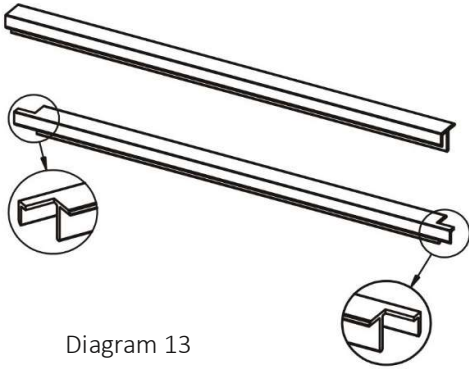


Diagram 13

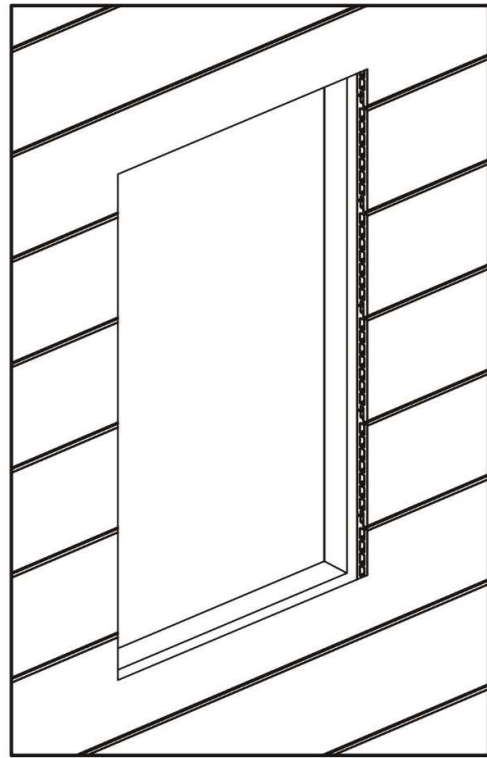


Diagram 15

- 2 Cut the cladding board to the required size as shown in diagram 16.

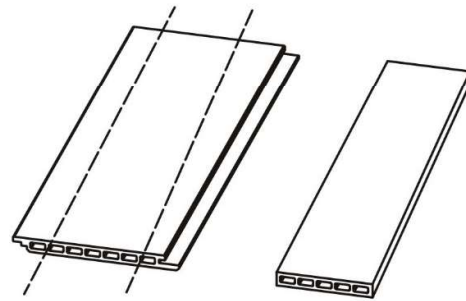


Diagramme 16

INSTALLATION OF WINDOW FRAMES

- 1 The window frame must be made after installation of all wall cladding panels as shown in diagram 15.

NOTE: This installation must be done on wood joists and not directly on brick, concrete or metal.

- 3 Take the cut piece and install it on the window frame as shown in diagram 17.

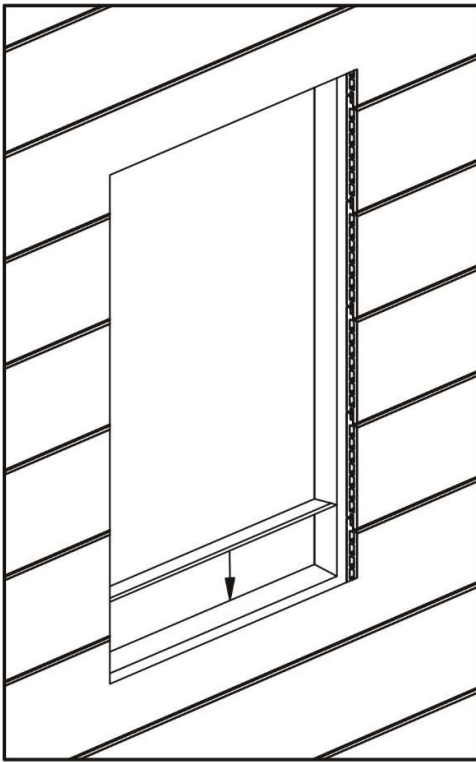


Diagram 17

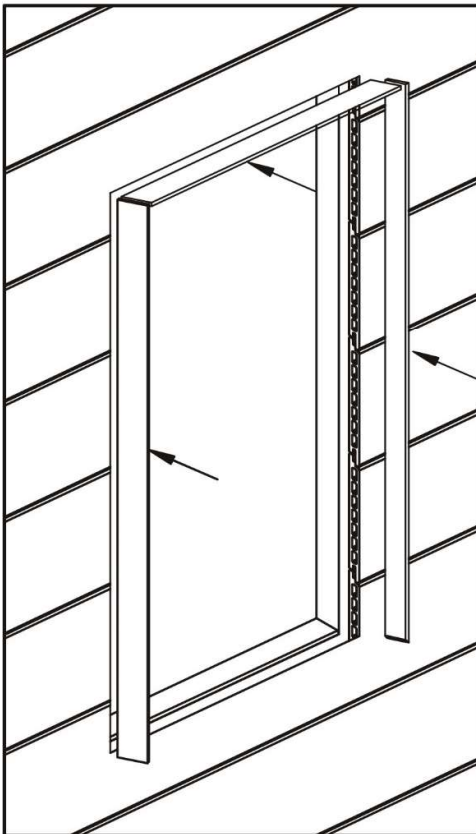


Diagram 18

- 4 Cut the EPR01 trim to make it fit to the corners of the window, as shown on diagram 19.

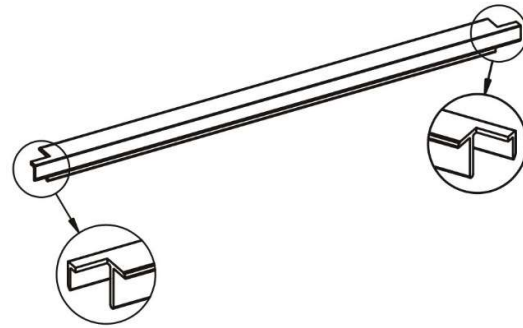


Diagram 19

- 5 Install the cut EPR01 trims on the cut composite pieces as shown on diagrams 20 et 21.

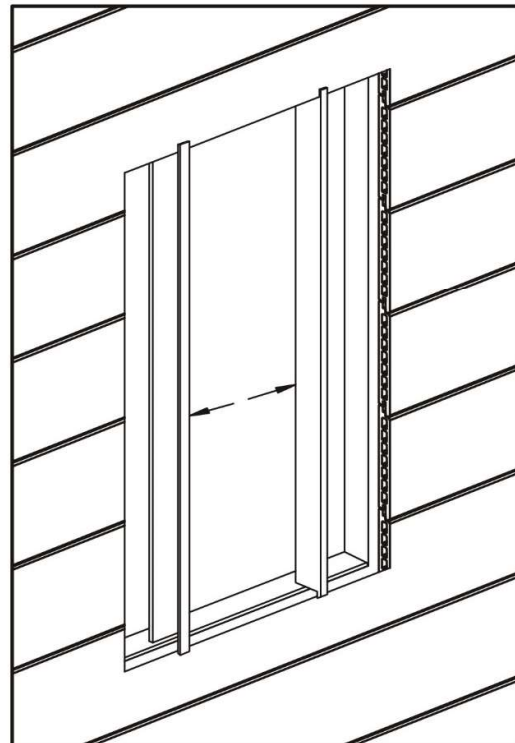


Diagram 20

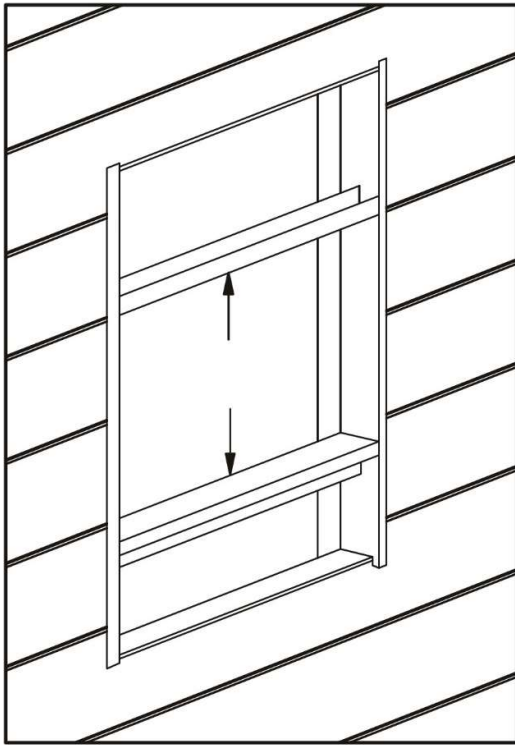


Diagram 21

- 6 The completed installation of the window should look like 22.

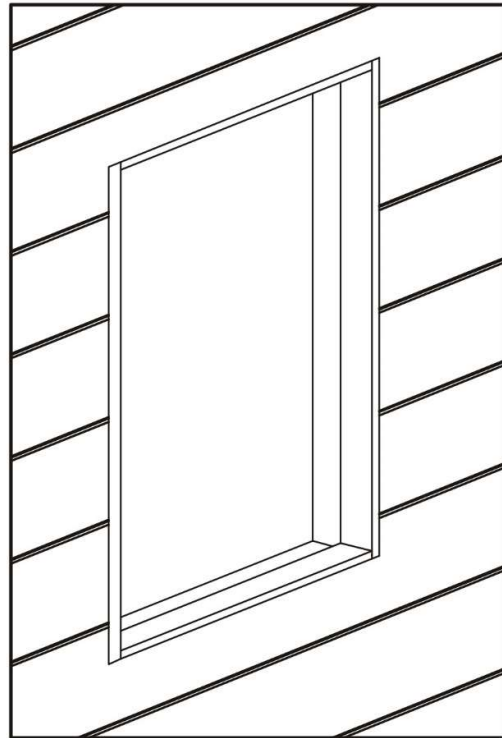


Diagram 22