



BROCK DOCK[®] SYSTEM

Installation Instructions





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Important Safety Information

- Always check for power, gas, water lines or submerged obstructions before digging.
- Always wear safety glasses when operating power tools.

DISCLAIMER: Installation is the sole responsibility of the installer. Westech assumes no responsibility whatsoever with respect to the installation. The information contained herein is provided for guidance purposes only and should not be relied upon as any absolute representation by Westech.

Plan The Installation

Planning the dock layout before beginning installation is essential. Starting with a well developed plan will simplify the installation of the Brock Dock® boards and dock components.

To ensure dock projections and finishing detail is uniform for all sides of the dock, choose from among the various finishing and trimming options prior to starting the project.

IMPORTANT:

- Obtain all necessary building permits prior to starting your installation.
- Read these Installation Instructions thoroughly before beginning installation.
- Follow the instructions for the methods and styles that apply to your installation.

Installation Requirements

Temperature Requirements

It is not recommended to install dock boards when the temperature is below 50°F (10°C).

Forceful blow are required to seat the dock boards into the clip strips, and cold temperatures will make the PVC dock board brittle.

Tools Needed:

Before starting installation gather the following tools and supplies.

- | | |
|-------------------------|------------------|
| ■ Dead Blow Hammer | ■ Framing Square |
| ■ Circular or Table Saw | ■ Handsaw |
| ■ Drill | ■ Stair Gauge |
| ■ Chalk Line | ■ Sawhorses |
| ■ Level | |

Supplies Needed:

- Safety Glasses
- Old Sock



Installation Instructions

STEP 1—Frame Substructure

Frame the substructure and secure the railing post supports in compliance with local building codes.

IMPORTANT:

- Substructure should be plumbed and square.
- Make sure the top of each joist is flush with the tops of the ledger board, band board and rim joists.
- Dock Installations - Support joists should be spaced to a maximum of 20" on center to ensure the substructure provides for dock board attachment on centers not exceeding 20".

NOTE: Large docks (over 24 ft wide) require the use of two dock boards (end-to-end). Where the ends of the boards meet, place two joists side-by-side, so that you can attach the dock boards to the substructure.

- Deck Installations - Typically a deck starts against the house or a wall. The substructure should be framed up to the house or wall allowing for no overhang.

NOTE: The house or wall the deck butts against is not always straight; it is recommended to chalk a line across the substructure where the outside edge of the Brock Dock® board should be placed.

Install Railing Support Posts to Substructure

Before installing the PVC dock boards, fasten the railing post supports to the substructure. Do not mount the post supports on top of the PVC dock boards.

STEP 2—Install Clip Strips

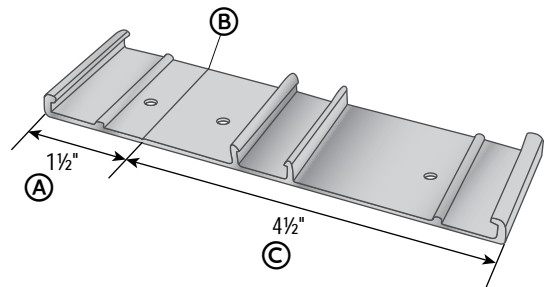
Clip strip assemblies mounted to the substructure are designed to hold the dock boards in place. A clip strip assembly must run the entire length of each joist.

About Clip Strips

Each complete clip strip assembly consists of a start/finish clip plus a combination of preassembled clip strips.

- Clip strips are available preassembled in 3-ft, 4-ft, or 5-ft lengths.
- 6" single clip strips are used to fill gaps when there is a difference between the length of the designed dock and the length of the preassembled clip strips.
- When calculating the number of strips needed to cover the entire length of the joist, remember to add the 6" length of a start/finish clip.

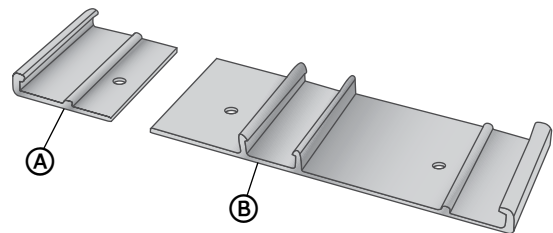
Start/Finish Clip (6")



- (A) Starter section
- (B) Scored Line
- (C) Finish section

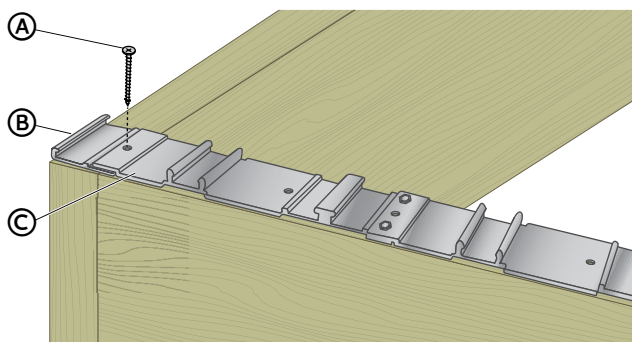
Install Clip Strips to Substructure

1. Grasp the start/finish clip on either side of the scored line, and then bend the clip until it breaks apart, as shown. The shorter section is the starter clip and the longer section is the finish clip.



- (A) Starter Clip
- (B) Finish Clip

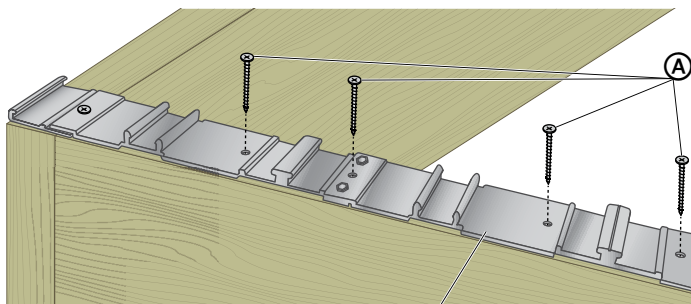
- Place the starter clip at the end of the framed substructure. Set aside the finish clip to use at the other end of the joist.
- Overlap one end of the preassembled clip strip with the starter clip so that the holes in each are aligned.
- Using a stainless steel screw, secure both strips to the substructure. DO NOT over tighten the screws.



(A) Decking Screw
(B) Starter Clip
(C) Clip Strip

- Making sure the entire length of the preassembled clip strip is square to the substructure; secure the remaining length of the clip strip to the dock board support through the screw holes provided.

NOTE: Use the 6" single clip strips to fill in when adding a 3-ft strip would make the assembly too long.

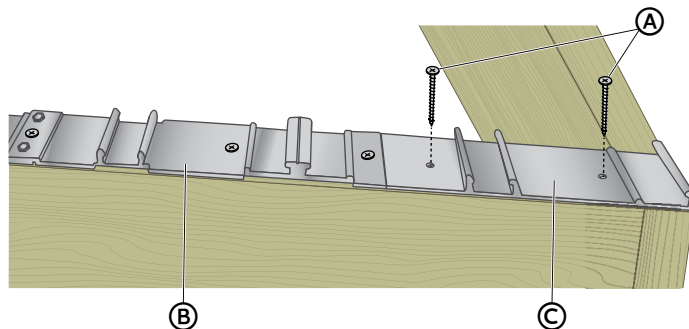


(A) Decking Screws
(B) Clip Strip

- When you have reached the end of the joist, place the end of the finish clip so that it butts up against the end of the preassembled clip strip.

- Using two stainless steel screws, fasten the finish clip to the substructure joist.

NOTE: The entire finish clip must rest on the substructure frame. If the remaining substructure frame is too short, cut the finish clip so that no part of the clip is hanging off the edge of the substructure. See "[Special Situation](#)" on page 5.



(A) Decking Screws
(B) Clip Strip
(C) Finish Clip

- Repeat this procedure to install clip strip assemblies to each remaining joist. Ensure the joists are at the correct on-center spacing.

STEP 3 – Install Brock Dock® boards

Each Brock Dock® board has three "legs" that protrude from the underside.

IMPORTANT:

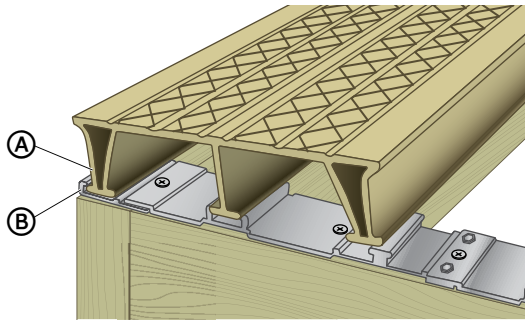
- Forceful hammer blows are required to fully seat the "legs" of the dock boards into the "clips" in the clip strips. Therefore, it is not recommended to install dock boards when the temperature is below 50 °F (10 °C).
- It is recommended that you cover the end of the dead blow hammer with a sock to avoid causing abrasions to the surface of the dock board when you strike it with the hammer.
- Once installed, dock boards cannot be removed without damaging the boards. Correct alignment of the dock boards prior to installation is critical.

- Cut the dock boards to length.

NOTE: The overhang, if desired, should be no greater than 2" from edge of substructure.

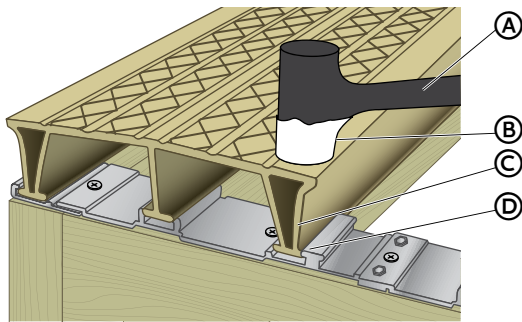
- Place the dock boards across each joist so that the dock board legs are aligned with the clips and the ends of each board overhang the substructure the length required for the desired finishing options.

3. Insert the outer dock board leg fully into the clips closest to the structure or previously installed board.



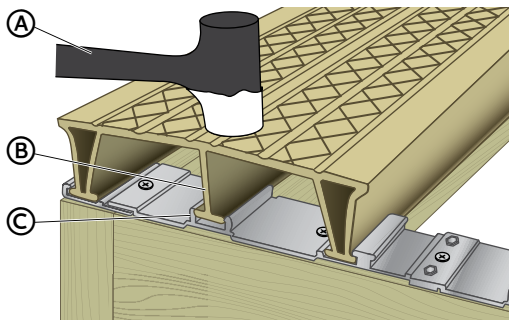
(A) Outer Leg
(B) Clip

4. Set the dock board down so that the remaining two "legs" of the deck board are resting over the clips.
5. Using a sock covered dead blow hammer, strike the dock board above the outer "leg." The leg of the dock board will "pop" into the clip strip.



(A) Dead Blow Hammer (C) Outer Leg
(B) Sock (D) Clip

6. Finally, strike the center of the dock board to "pop" the inner leg into the clip strip.



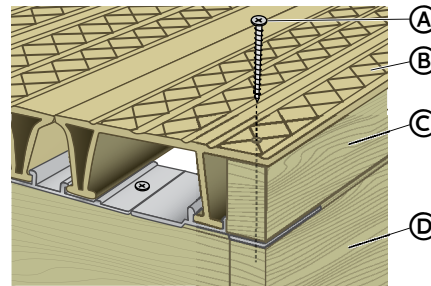
(A) Dead Blow Hammer
(B) Inner Leg
(C) Clip

7. Repeat steps 5 and 6 at each joist location along the length of the dock board.
8. Repeat this procedure to install the remaining dock boards.

Special Situation

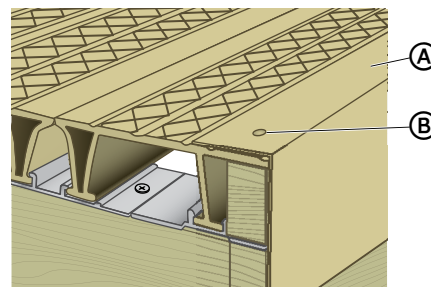
When the remaining length of the substructure will not accommodate the entire length of the finish clip you must cut the finish clip to length, and then use a wood strip/block to support the long edge of the dock board.

1. Cut the finish clip to length so that the end of the clip is flush with the end of the substructure.
2. Cut the last dock board lengthwise so that the long edge is either flush with the end of the substructure or overhangs the substructure by 1½" if using C-Channel trim.
3. Attach the remaining dock board "leg(s)" to the installed finish clip.
4. Place a wood strip/block (1¼" H x length of the dock board) beneath the cut edge of the dock board.
5. Using stainless steel screws, fasten the dock board to the support structure through the wood strip/block.



(A) Decking Screw (C) Wood Block
(B) Dock Board (cut to size) (D) Substructure

6. Trim and finish the dock board and substructure as desired.



(A) L-Trim
(B) Pushpin

Finish and Trim Installation

A variety of finishing and trimming options are possible for the Brock Dock® system. Choose the options best suited to your dock or deck design.

IMPORTANT: There are finishing and trimming options that are specific to Marine applications and options specific to Deck applications. Follow the instructions for the finishing and trimming options for your installation type.

Marine Applications

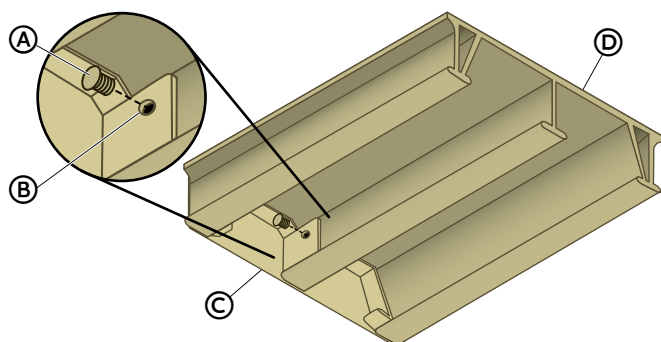
The following finishing and trimming options are intended for use in marine applications.

Finish the ends of the dock boards

NOTE: To finish the ends of the dock boards using C-Channel, Option 2 or Option 3, the dock boards must overhang the substructure by a minimum of 1½" to a maximum of 2".

Option 1 – Brock Dock End Caps

1. Place the Brock Dock End Cap over the end of the dock board.
2. Using the predrilled hole in the end cap as a template, mark the location of the hole onto the center "leg" of the dock board.
3. Remove the Brock Dock End Cap. Drill a ⅛" starter hole through the center "leg" of the dock board at the marked location.
4. Replace the end cap. Using the pushpin supplied with the end cap, fasten the end cap to the dock board.

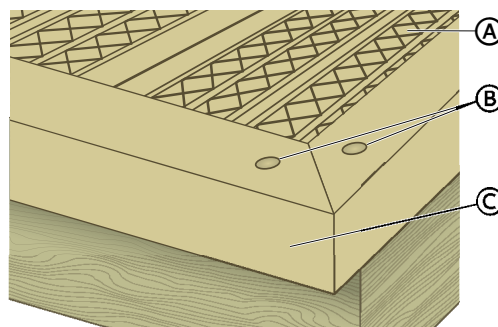


(A) Pushpin
(B) Starter Hole
(C) End Cap
(D) Dock Board

5. Repeat for each exposed end of the installed dock boards.

Option 2 – C-Channel and pushpins

1. Cut C-Channel and place it over the ends of the dock boards.
2. Drill a ¼" hole every 16" through the C-Channel and into the top surface of the dock board; making sure to avoid contact with the supporting "legs" of the dock boards.
3. Using the pushpins provided, fasten the C-Channel to the dock board.

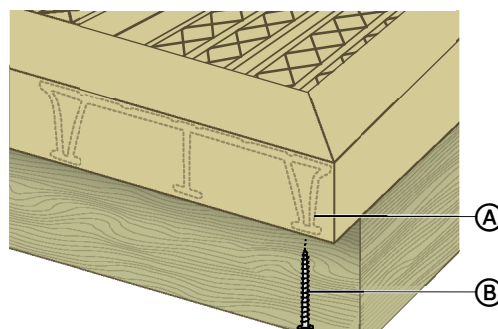


(A) Dock Board
(B) Pushpins
(C) C-Channel

Option 3 – C-Channel fastened from underneath

1. Cut C-Channel and place it over the ends of the dock boards.
2. Using stainless steel screws and working from the underside of the dock board, fasten the C-Channel to the dock board.

NOTE: When fastening the C-Channel trim to the dock board, make sure the screw is contacting the dock board legs.



(A) Dock Board Leg
(B) Decking Screw

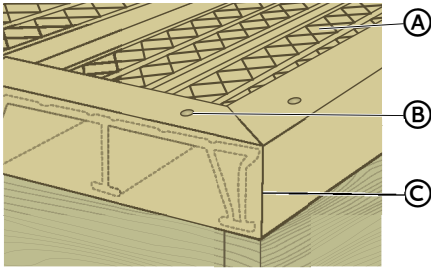
Option 4 – L-Trim and pushpins

This option can be used for any side of the dock structure, with or without an overhang.

1. Cut and place the 1½" x 1½" L-Trim over the ends of the dock boards.
2. Drill a ¼" hole every 16" through the L-Trim and top surface of the dock board; making sure to avoid the supporting "legs" of the dock boards.



- Using the pushpins provided, fasten the L-Trim to the dock board, as shown.



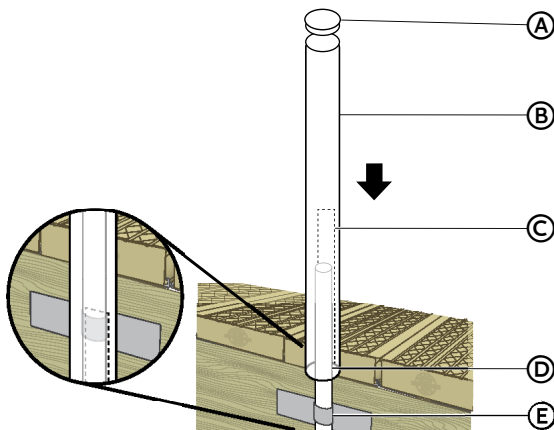
(A) Dock Board (C) L-Trim
(B) Pushpins

Finish substructure supports - Brock Dock® post wrap

- Cut the 3½" round post wrap to the desired length.
- Create an opening in the post wrap for the pole bracket. Cut out a section in the back of the post wrap to allow the wrap to slide over the pole bracket that is attached to the dock substructure.

NOTES:

- Cut out a section just wide enough to allow the post wrap to slide over the pole bracket.
 - Cut only the section along the length of the post wrap that will be BELOW the pole bracket.
- Slide the post wrap over the substructure support.
 - Cover the end of the post wrap with the Brock Dock 3½" Post Cap.
 - Repeat for each substructure support.



(A) Brock Dock Post Cap (D) Pole
(B) Brock Dock Post Wrap (E) Pole Bracket
(C) Pole Bracket Opening

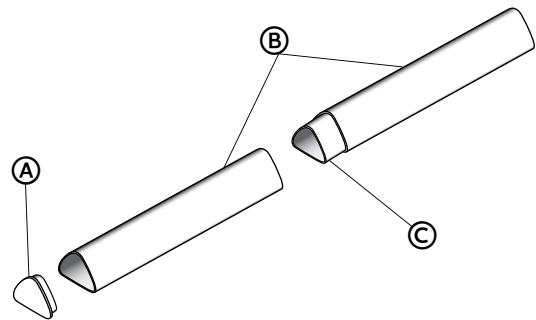
Finish the dock substructure - Brock Dock Edge Guard

The Brock Dock Edge Guard is designed to prevent boats from scraping against the substructure of the dock.

IMPORTANT: Lifting and securing the Edge Guard (once assembled) will require 2 or more people depending on the length of the assembly.

The Edge Guard Assembly includes:

- Brock Dock Edge Guard
- Edge Guard Connector - designed to slip over the substructure support (that has been covered with the Brock Dock Post Wrap)
- Insert Slip Sleeve - designed to slide inside the Edge Guard Connector and Edge Guard to provide a clean/tight connection between posts



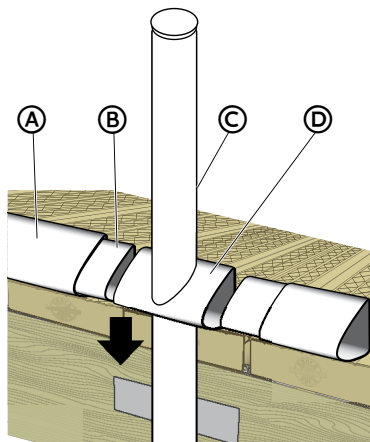
(A) Edge Guard End Cap
(B) Brock Dock Edge Guard
(C) Insert Slip Sleeve

- Cut Edge Guard to the desired length, making sure to account for the length of the Edge Guard Connector.
- Insert the Insert Slip Sleeve into the Edge Guard Connector making sure that the Insert Slip Sleeve does not cover the existing hole for the post wrap.
- Slide the Edge Guard over the other end of the Insert Slip Sleeve until it meets the end of the Edge Guard Connector.

NOTE: The Insert Slip Sleeve provides a clean/tight connection between the Edge Guard and Edge Guard Connector.

- Repeat this procedure for each post connection.

- Finally, lift the Edge Guard assembly over the sleeved support posts and allow the assembly to slide down into place.



- (A) Edge Guard
- (B) Insert Slip Sleeve
- (C) Post Wrap
- (D) Edge Guard Connector

Deck Applications

Finish the last deck board and cover the exposed substructure

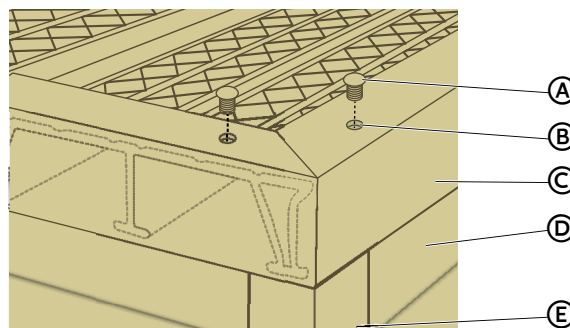
In general, all corners where the fascia boards meet can be covered with L-Trim and supporting posts can be covered with post wraps. The ends of the deck boards can be finished and trimmed using other options. See ["Finish the ends of the dock boards"](#) on page 6.

Option 1 – No Overhang using L-Trim and pushpins

This option can be used for any side of the dock structure, without an overhang.

- Cut and place the fascia on the substructure below the deck board.
- Drill a ¼" hole every 16" through the top surface of the fascia only; making sure the L-Trim will cover these holes.
- Using roofing nails, attach the fascia to the substructure through the ¼" access holes.
- Cut and place the 1½" x 3" L-Trim where it will be fastened.

- Drill a ¼" hole every 16" through the L-Trim and top surface of the dock board; making sure to avoid the supporting "legs" of the dock boards.
- Using the pushpins provided, fasten the L-Trim to the dock board, as shown.



- (A) Pushpin
- (B) Access Hole
- (C) L-Channel Trim (1½" x 3½")
- (D) Fascia (¼" x 10")
- (E) L-Channel Trim (1½" x 1½")

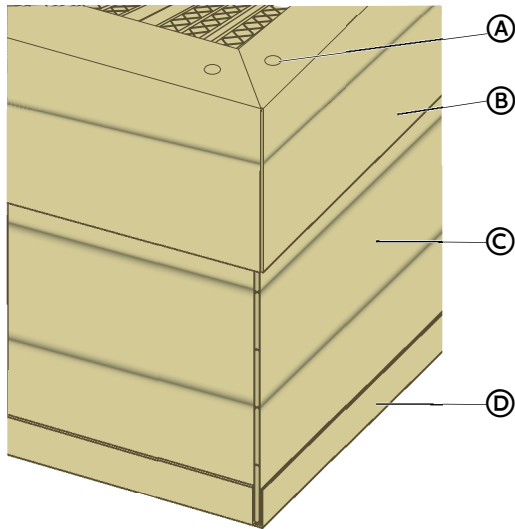
Option 2 – No overhang using Extended J-Channel

This option can be used to trim the last deck board when there is no overhang.

- Cut and place the Extended J-Channel trim so that it covers the open end of the dock board.
- Drill ¼" holes through the Extended J-Channel and into the Brock Dock board every 16" across the top surface of the Extended J-Channel.
- Insert pushpins into the ¼" holes to fasten the Extended J-Channel to the Brock Dock board.
- Fasten the Extended J-Channel trim to the substructure. Drive roofing nails through the slots at the bottom of the trim and into the substructure.
- Measure and mark the distance needed from the upper Extended J-Channel trim to the lower J-Channel trim. Allow enough space for the fascia board plus a ¼" clearance between the upper trim and the lower trim.

NOTE: The ¼" clearance and the use of a lubricant will significantly reduce the force required to slide the fascia board between the two J-Channel trims.
- Install the lower J-Channel trim where marked. Insert roofing nails into the slots in the J-Channel trim to fasten the trim to the substructure.

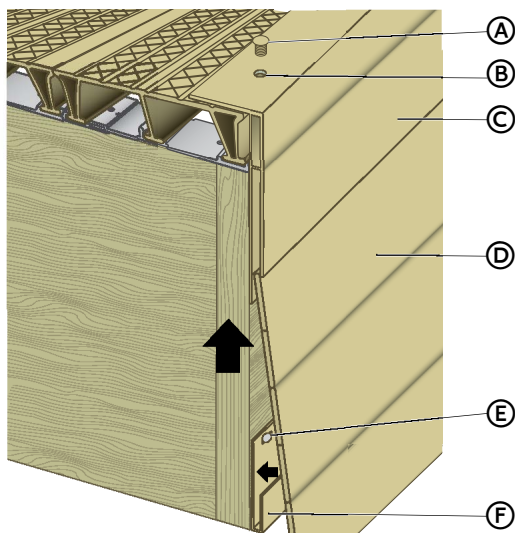
7. Install the fascia board between the Extended J-Channel and the J-Channel using one of the following methods.



- (A) Pushpin
- (B) Extended J-Channel
- (C) Fascia Board
- (D) J-Channel

Method A – Angle the fascia board for installation

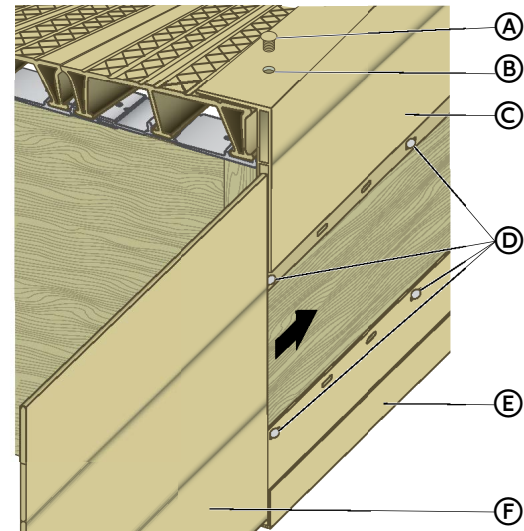
- Holding the fascia board at an angle, insert the top of the fascia board into the open space of the Extended J-Channel.
- Lift the board upward until it is possible to insert the bottom edge of the fascia board into the open space of the J-Channel.
- Lower the fascia board into the open space of the J-Channel. The fascia will seat itself on the bottom of the J-Channel.



- (A) Pushpin
- (B) Access Hole
- (C) Extended J-Channel
- (D) Fascia Board
- (E) Roofing Nails
- (F) J-Channel

Method B – Slide the fascia board vertically into the upper and lower J-Channels

- Holding the fascia board vertically, align the top and bottom edges of the fascia board with the J-Channel openings.
- Slide the fascia board into the channels.



- (A) Pushpin
- (B) Access Hole
- (C) Extended J-Channel
- (D) Roofing Nails
- (E) J-Channel Trim
- (F) Fascia (1/4" x 10")



IMPORTANT

ALL CLAIMS UNDER THIS WARRANTY MUST BE REPORTED TO WESTECH IN WRITING WITHIN THIRTY (30) DAYS OF THE DATE THAT THE DEFECT IS FIRST DISCOVERED OR REASONABLY COULD HAVE BEEN DISCOVERED.

If you feel that your Westech product is defective, send your written notice to Westech at this address:

Westech Building Products, Inc.

Attn: Customer Service

7451 Hwy. 62 E

Mount Vernon, Indiana 47620

E-mail: info@westechbp.com

For Non-Warranty Questions

Contact Westech Customer Service at:

Toll Free: 1.866.423.2381

Fax: 403.279.4473

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