FREEDOM-WEB

FREEDOM®
OUTDOOR LIVING

Privacy Railing Kit

INSTALLATION INSTRUCTIONS

Read all instructions prior to installing product.
Refer to manufacturers safety instructions when operating any tools.

To register your product, please visit:

freedomproduct.com

⚠ WARNING:

- Improper installation of this product can result in personal injury. Always wear safety goggles when cutting, drilling and assembling the product.
- Incorrect installation may cause harm to the product or individual.

NOTICE:

- DO NOT attempt to assemble the kit if parts are missing or damaged.
- DO NOT return the product to the store. For assistance or replacement parts call: 1-800-336-2383.

BEFORE YOU BEGIN:

- It is the responsibility of the installer to meet and/or exceed all code and safety requirements and to obtain all required building code permits.
- The deck and railing installer should determine and implement appropriate installation techniques for each installation.
- Additional products and assembly may be required to meet wind code requirements. Notice of acceptance (NOA) can be found at www.miamidade.gov/building/pc-search_app.asp

TOOLS/ MATERIALS NEEDED:

	Level
	Tape Measure
	Safety Glasses
	Drill
	1/8" Drill Bit
	3/8" Nut Driver
	Rubber Mallet
	Chalk Line
	2" Spacer Blocks
	2"x8" Wooden Blocks (For structural deck blocking)

FASTENERS NEEDED:

DEPENDING ON INSTALL METHOD (SOLD SEPARATELY)

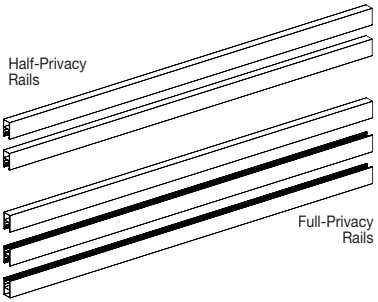
	⅜" Galvanized Bolts with Nuts and Washers (For Deck/Wood) (6" long minimum)
	⅜" Masonry Anchors (For Concrete)
	#10 x 3½" deck screws (For post blocking)

Half-Privacy Kit Components:

Description
Top Rail
Bottom Rail

Full-Privacy Kit Components:

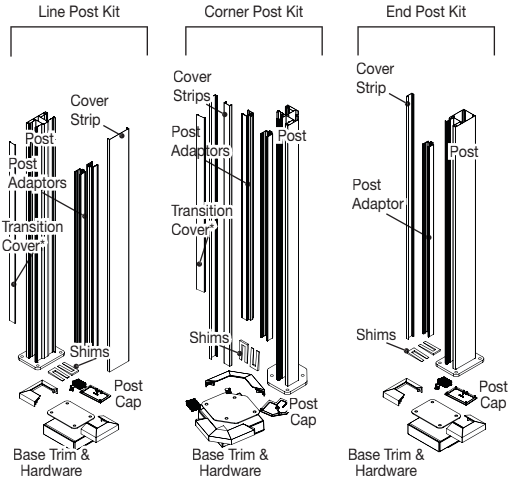
Description
Top Rail
Mid Rail
Bottom Rail



Sold Separately:

42" or 72" Line Post Kit*
42" or 72" Corner Post Kit*
42" or 72" End Post Kit
Infill Boards

* Transition covers are included with 72" Post Kits



To obtain and review a copy of the warranty please go to: Freedomproduct.com/warranty. You can also contact 1.888.418.4400 or write to Freedom Outdoor Living, 7830 Freeway Circle, Middleburg Heights, Ohio 44130 to obtain a copy of the warranty.

IMPORTANT NOTE:

Privacy railing has been designed to meet IBC code requirements. Please follow the guidelines listed throughout and contact customer service with any additional information, questions, or concerns.

In areas where wind loading is a concern and code requirement, railing systems may require shorter spans depending on height and potential increased loading. In these areas, please see the maximum railing spans listed in the table at the right.

Wind Table – Post Spacing	
Panel Height (In inches)	Post Spacing (Inside edges) (In inches)
≤ 48	64
≤ 48 – 54	50
≤ 54 – 60	38
≥ 66 – 72 Max	30

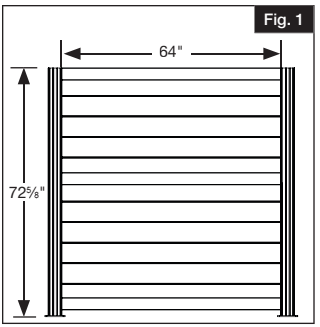
Installation For Full-Privacy Railing

1

A full privacy railing kit creates a 72" tall railing section. Posts are spaced 64" inside edge of post to inside edge of post and use full length infill boards (66" long) and rails (66⅞") during assembly.

NOTE:

Eleven (11) infill boards are requried for a 72" high panel.



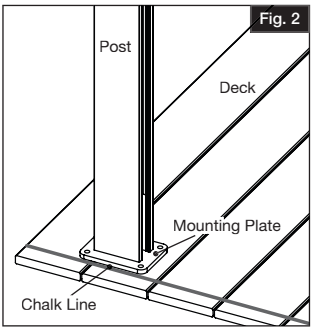
2

a. Posts are designed and manufactured to accept 3/8" fasteners (sold separately) for bolting to surface. Be sure to use appropriate fasteners for your installation.

b. Determine the placement of the posts by evenly spacing them along the deck. Ensure sufficient mounting structure exists at these locations. Note that the maximum distance between posts can be 64" inside edge of post to inside edge of post See Step 5 (Fig. 9) for reference.

NOTE:

A minimum of 4" solid blocking is required for standard installation. However, additional structure may be required depending on application. Always refer to local building codes for installation requirements.

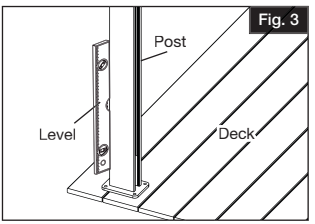


3

Before installing posts, be sure that all posts are facing the same direction (with side requiring post cover all facing the same direction).

Snap a chalk line onto the mounting surface to ensure that all posts are aligned properly (Fig. 2). Plumb and level the posts (Fig. 3).

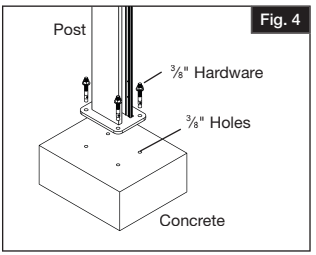
Secure posts into position.



4a

Concrete application:

Use the post assembly to mark the holes for the concrete anchors as required by applicable building codes. The holes in the surface mounting plate will allow for a max size of a ⅜" anchor (Fig. 4).



4b

Through bolt application:

a. Install blocking at post locations determined in Step 2b.

b. Beneath all post locations install at least two (2) 2x8 blocks (Fig. 5) using at least three (3) #10x3½" deck screws (sold separately) penetrating through the joists at least 1½" into the blocks (Fig. 6).

c. Use the post assembly to mark the holes for the surface mounting plate (Fig. 7). Mark and pre-drill ⅜" holes through wood deck (Fig. 7).

d. Secure post to the deck using ⅜" galvanized bolts, washers, and nuts (Minimum 6" long) through decking, blocking, and required ⅛" mounting sandwich plate to underside of blocking (Fig. 8).

TIP:

Shims are included with your post kit. Use these to plum your posts before finishing your installation to be sure all posts are level.

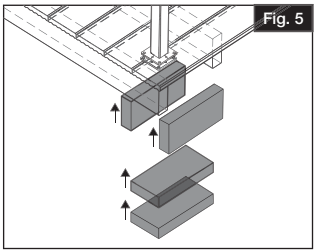


Fig. 5

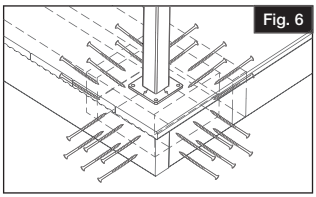


Fig. 6

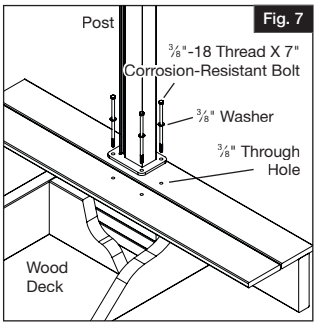


Fig. 7

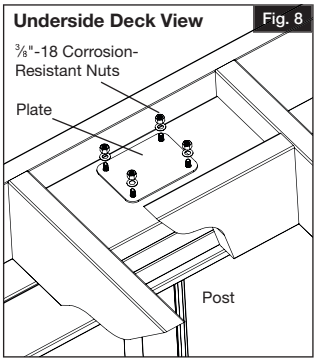


Fig. 8

5

Measure to install posts. If not cutting down rails, inside edge of post should measure 64" (Fig. 9). Install posts accordingly.

NOTE:

If cutting section down, see below for calculation for rails and infill boards lengths:

"X" = Inside Edge of Post

Rail Length = "X" + 2.75"

Infill Board Length = "X" + 2.00"

See Figure 8 for reference.

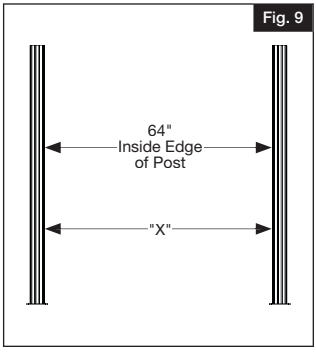
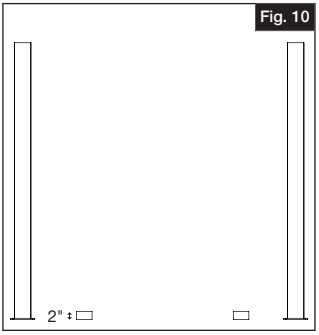


Fig. 9

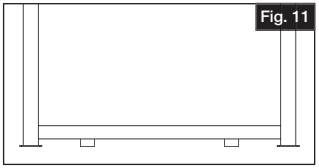
6 Once posts are set, place 2" spacer blocks to support bottom rail (Fig. 10).



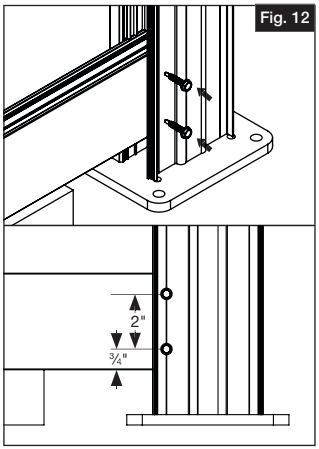
7 Place bottom rail inside the posts, resting it on the 2" spacer blocks (Fig. 11).

TIP:

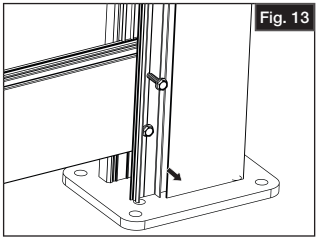
The rail may need to be inserted at an angle in one post to start before resting it fully on the blocks and in both posts.



8 Pre-drill rail using a ⅛" drill bit. Attach bottom rail using two ¾" Hex Head screws. Bottom screw should be ¾" from the bottom of the bottom rail. Screws should be 2" apart from each other. (Fig. 12).



9 Back out the top screw so that the channel is clear until infill boards are installed (Fig. 13). Repeat Steps 7 & 8 on other post.

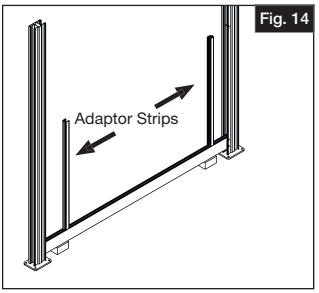


10 Snap plastic post adaptor strips into post channel (Fig. 14).

NOTE:

If installing mid-rail at 36": bottom post adaptors are the shorter length at 27" long.

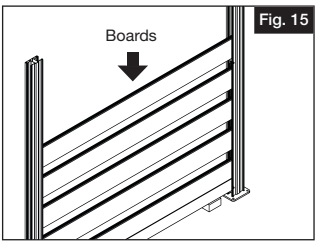
If installing mid-rail at 42": bottom post adaptors are the longer length at 31 5/16".



11 Next, install horizontal boards (see Step 5 for calculations on cutting infill boards if necessary):

Install (6) boards* horizontally into bottom rail (Fig. 15).

* Depending on desired height of mid-rail (36" or 42") you will need a different number of boards on top and bottom.

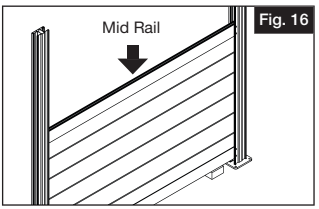


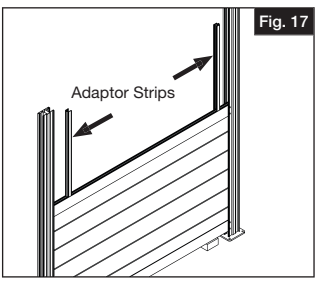
For 36" height:
- 5 boards below mid rail
- 6 boards above mid rail

For 42" height:
- 6 boards below mid rail
- 5 boards above mid rail

NOTE:

Lightly use rubber mallet as needed to fully nest the boards on top of each other. Boards may need to be inserted at an angle to start for easier installation.



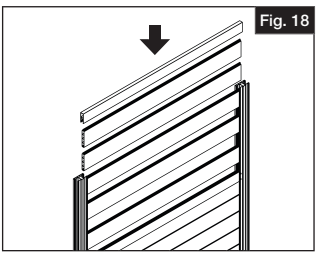


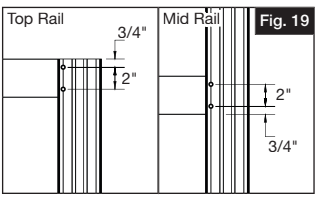
12 Install mid-rail (Fig. 16). Snap second set of post adaptor strips into post channels above mid-rail (Fig. 17). Insert the next (6) boards* over mid-rail.

13 Install top rail on top of the boards, pre-drill with a 1/8" drill bit, and screw all three rails into place (Fig 18). Screws should be 2" apart from each other with bottom screw attached about 3/4" above the bottom of the rail.

NOTE:

Screw all three rails into place at both ends of the rail through both posts. This is done by securing two screws through the mid rail and two screws in the top rail at each end (Fig. 19).

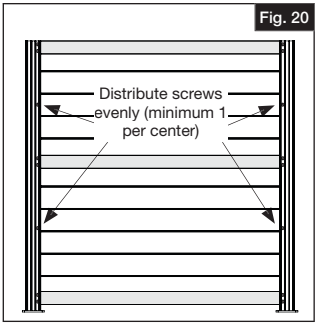




14 Remove the 2" spacer blocks from under the bottom rail.

15

Each post comes with sixteen (16) screws, but not all screws are used in each assembly. For additional security, use remaining screws to fasten infill boards to posts. Screws should be distributed evenly between top and bottom sections of the rail and used on each end of the boards. Locate screws midway between all three rails (halfway between mid and top rail, halfway between mid and bottom rail) for best results. These screws will go into the channel aligned with screws used to lock rails into place (Fig 20).



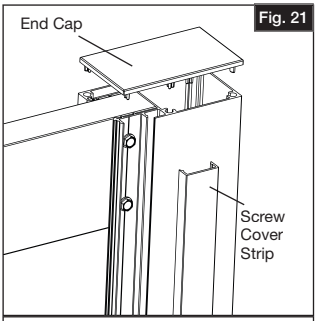
16

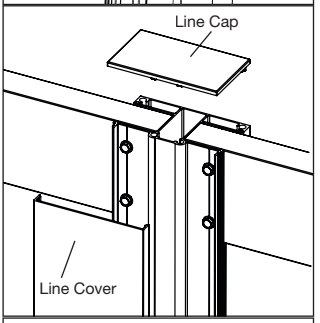
Snap/slide aluminum screw cover strip (from post kit) into place by holding cover approximately 6" from top of post.

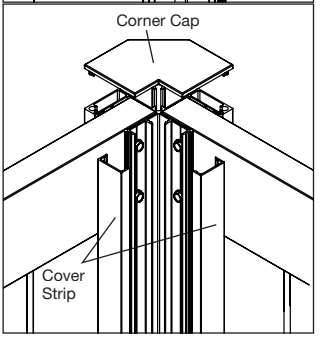
Hook one side of the cover and push down to snap the other side.

Slide the cover down the post to hide the screws (Fig. 21).

Install post cap to top of post. Use a soft rubber mallet if necessary to obtain a firm fit. (Fig. 21)

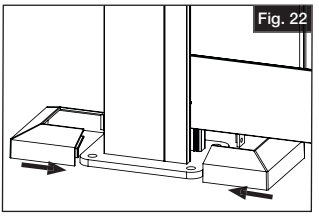






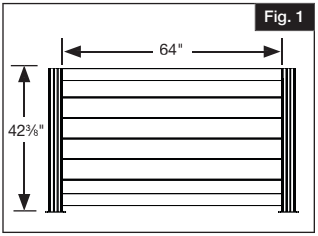
17

Assemble post base trim over plate. Take one side of trim ring and push plastic plugs through hole underneath. Take second half of the trim ring and push together (Fig. 22). Slide over plate for a finished look.



1

A half privacy railing kit creates a 42" tall railing section. Posts are spaced 64" inside edge of post to inside edge of post and use full length infill boards (66" long) and rails (66⅞") during assembly (Fig. 1).



NOTE:

- Six (6) infill boards are required for a 42" high panel, and five (5) boards for 36".
- Posts are 42⅜" and designed to allow a little room above the top rail so that other rail systems can attach to it if required. You may cut ¼" off the post to have the top cap sit flush with the rail if desired when transitioning between privacy panels.
- These posts can also be cut down for a 36" rail height. Cut posts down 6" for a 36" finished rail height and post height of 36⅜" when attaching to another rail system. You may cut posts down 6¼" to have posts top flush with the top rail if desired when transitioning between privacy panels

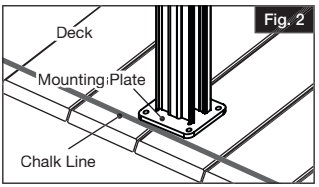
2

a. Posts are designed and manufactured to accept ⅜" fasteners (sold separately) for bolting to surface. Be sure to use appropriate fasteners for your installation.

b. Determine the placement of the posts by evenly spacing them along the deck. Ensure sufficient mounting structure exists at these locations. Note that the maximum distance between posts can be 64" inside edge of post to inside edge of post See Step 5 (Fig. 9) for reference.

NOTE:

A minimum of 4" solid blocking is required for standard installation. However, additional structure may be required depending on application. Always refer to local building codes for installation requirements.

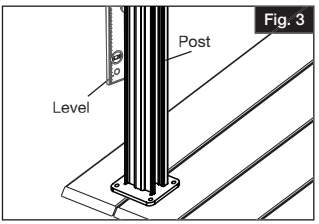


3

Before installing posts, be sure that all posts are facing the same direction (with side requiring post cover all facing the same direction).

Snap a chalk line onto the mounting surface to ensure that all posts are aligned properly (Fig. 2). Plumb and level the posts (Fig. 3).

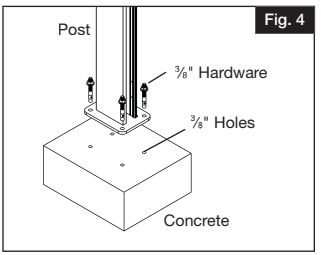
Secure posts into position.



4a

Concrete application:

Use the post assembly to mark the holes for the concrete anchors as required by applicable building codes. The holes in the surface mounting plate will allow for a max size of a ⅜" anchor (Fig. 4).



4b

Through bolt application:

a. Install blocking at post locations determined in Step 2b.

b. Beneath all post locations install at least two (2) 2x8 blocks (Fig. 5) using at least three (3) #10x3½" deck screws (sold separately) penetrating through the joists at least 1½" into the blocks (Fig. 6).

c. Use the post assembly to mark the holes for the surface mounting plate (Fig. 7). Mark and pre-drill ⅜" holes through wood deck (Fig. 7).

d. Secure post to the deck using ⅜" galvanized bolts, washers, and nuts (Minimum 6" long) through decking, blocking, and required ⅛" mounting sandwich plate to underside of blocking (Fig. 8).

TIP:

Shims are included with your post kit. Use these to plum your posts before finishing your installation to be sure all posts are level.

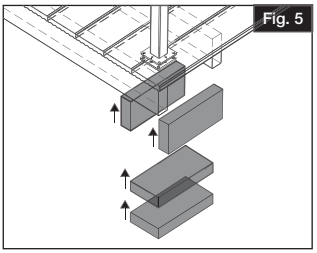


Fig. 5

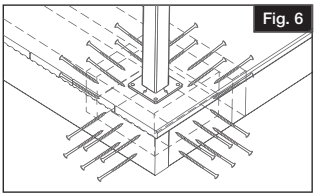


Fig. 6

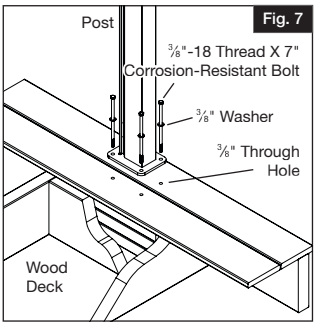


Fig. 7

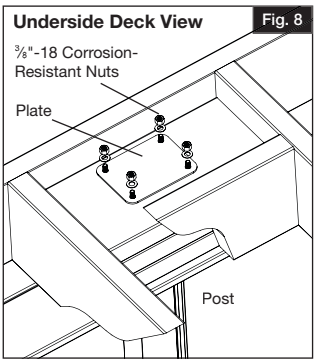


Fig. 8

5

Measure to install posts. If not cutting down rails, inside edge of posts plate should measure 64" (Fig. 9). Install posts accordingly.

NOTE:

If cutting section down, see below for calculation for rails and infill boards lengths:

"X" = Inside Edge of Post

Rail Length = "X" + 2.75"

Infill Board Length = "X" + 2.00"

See Figure 9 for reference.

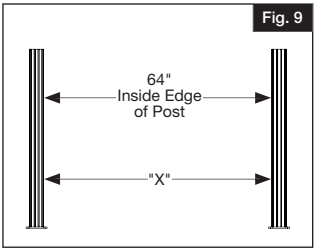


Fig. 9

6 Once posts are set, place 2" spacer blocks to support bottom rail (Fig. 10).

Fig. 10

7 Place bottom rail inside the posts, resting it on the 2" spacer blocks (Fig. 11).

TIP:

The rail may need to be inserted at an angle in one post to start before resting it fully on the blocks and in both posts.

Fig. 11

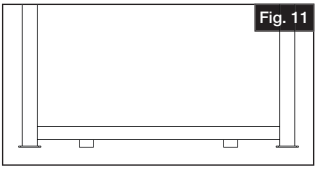
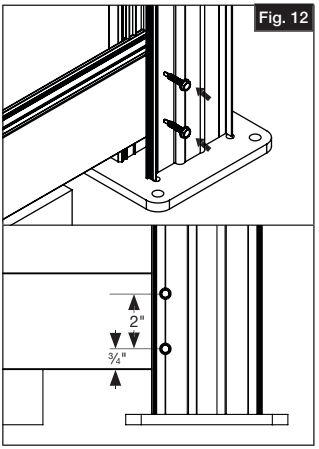


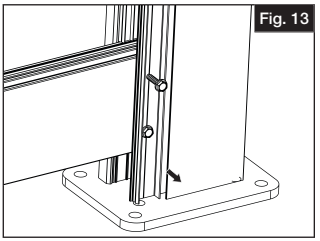
Fig. 12



8 Pre-drill rail using a ⅛" drill bit. Attach bottom rail using two ¾" Hex Head screws. Bottom screw should be ¾" from the bottom of the bottom rail. Screws should be 2" apart from each other. (Fig. 12).

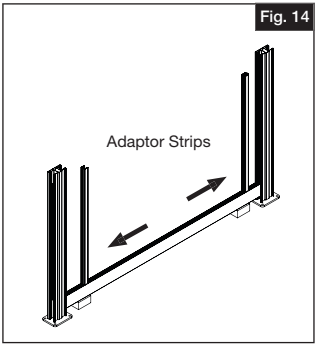
9 Back out the top screw so that the channel is clear until infill boards are installed (Fig. 13). Repeat Steps 7 & 8 on other post.

Fig. 13



10 Snap post adaptor strips into post channel (Fig. 14).

Fig. 14



11 Install horizontal infill boards as shown. Boards should fit inside adaptor strip (Fig. 15).

NOTE:

Lightly use rubber mallet to fully nest vinyl boards on top of each other.

For 42" rail installations use 6 boards.
For 36" rail installations use 5 boards.

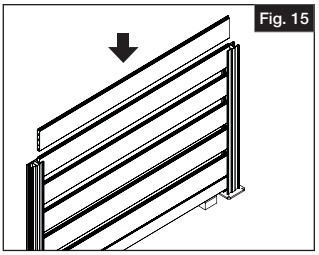


Fig. 15

12 Once horizontal infill boards are installed, lift the top rail ⅜" to ensure that the top rail is at 42" or 36" depending on installation and code requirements. Infill board will still sit inside the top rail channel and provide desired privacy and required security (Fig. 16).

Install top rail using two ¾" Hex Head screws. Screws should be 2" apart from each other with bottom screw attached about ¾" above the bottom of the rail (Fig. 17).

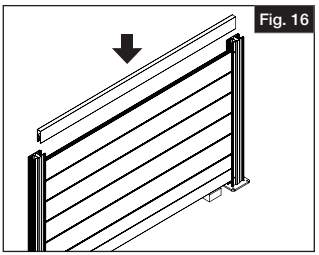


Fig. 16

13 Remove the 2" spacer blocks from under the bottom rail.

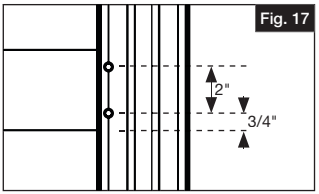


Fig. 17

14 Each post comes with sixteen (16) screws, but not all screws are used in each assembly. For additional security, use remaining screws to fasten infill boards to posts. Screws should be distributed evenly between top and bottom rail and used on each end of the boards. Locate screws midway between top rail and bottom rail for best results. These screws will go into the channel aligned with screws used to lock rails into place (Fig. 18).

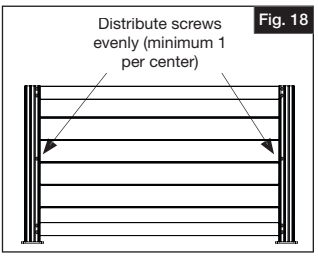


Fig. 18

15 Snap/slide post cover (from post kit) into place by holding cover approximately 6" from top of post. Hook one side of the cover and push down to snap the other side. Slide the cover down the post to hide the screws (Fig. 19). Install post cap to top of post. Use a soft rubber mallet if necessary to obtain a firm fit. (Fig. 19)

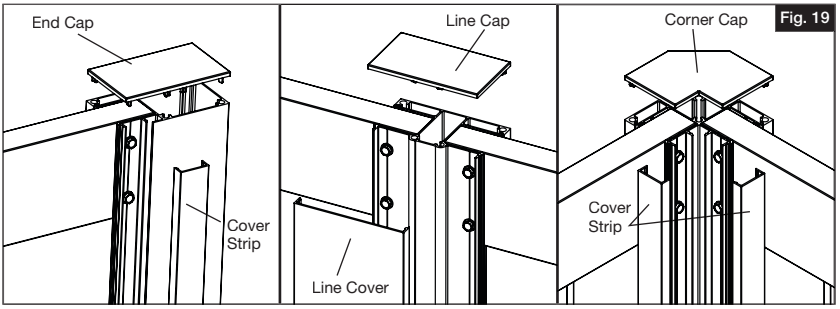


Fig. 19

16 Assemble post base trim over plate. Take one side of trim ring and push plastic plugs through hole underneath. Take second half of the trim ring and push together (Fig. 20). Slide over plate for a finished look.

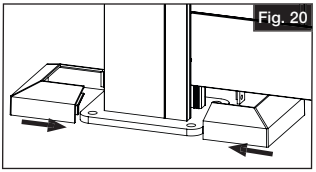


Fig. 20

Transitioning from Full Privacy to Half Privacy Panel

1 If transitioning to a half-privacy panel from the full privacy panel (Fig 1), use the 36" transition cover provided in post kit to conceal top of Line or Corner post.

The transition cover is installed by snapping or sliding from the top of the post and sliding down into place (Fig. 2).

Transition cover will need to be cut back 6" if half-privacy panel is installed at 42". Cover works as is for 36" high rail.

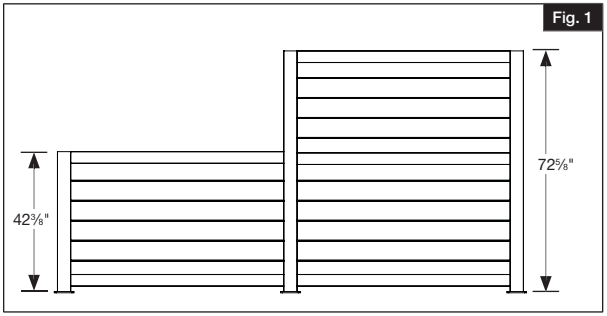


Fig. 1

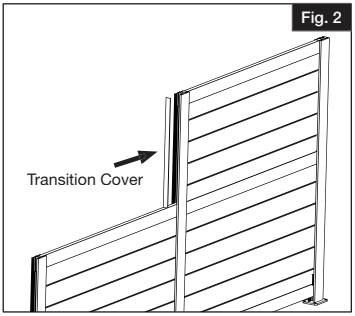


Fig. 2

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