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About California Proposition 65:

<https://fortressbp.com/about/californiaproposition65>

INTRODUCTION

READ INSTRUCTIONS COMPLETELY BEFORE STARTING INSTALLATION

It is the responsibility of the installer to meet all code and safety requirements, and to obtain all required building permits. The fencing installer should determine and implement appropriate installation techniques for each installation situation. Fortress Building Products and its distributors shall not be held liable for improper or unsafe installations.

Before You Begin

Contact your local Building Code Department for required permits and laws regarding your fence project.

If applicable, also contact your Home Owners Association for rules and regulations regarding fence installations in your neighborhood.

Call 811 before you dig post holes to locate and identify any buried utilities.

Always wear appropriate Personal Protective Equipment (PPE) when installing a fence.

Handle the OASIS COMPOSITE FENCING boards carefully. Dropping can result in damage to the boards.

Adhere To The Following Storage Guidelines:

- All components should be stored under cover.
- When storing boards on site, a pallet or flat surface should be used to support the full length of each component.

Required Tools



Goggles



Safety
Gloves



Tape
Measurer



Speed
Square



Level
Tool



Claw
Hammer



Bit
Extender



Socket
Set



Hex Head Nut Driver Bits:
3/8"[10mm]



Post Hole Digger



Drill



Pliers



Ground
Stakes



String



Pencil



Brush



Rags



Wheelbarrow



Spade Shovel



Concrete/Gravel



Reciprocating Saw
or Portable Bandsaw



Air
Compressor



Miter
Saw



Nail
Gun



Electrical
Cords



Table
Saw

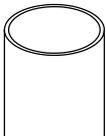


Circular
Saw

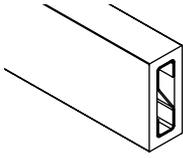
OASIS FENCE MATERIALS

Post

2-3/8" [60mm] Ht-40 Round Pipe (**Recommended Post**)



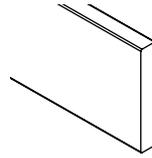
Rail & Boards



Rail with Z-Channel

3-1/2" x 1-1/2" x 96"

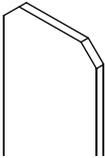
[89mm x 38mm x 2438mm]



Top Cap

6" x 1" x 96"

[152mm x 25mm x 2438mm]



6' Dog Ear Board

6" x 1/2" x 72"

[152mm x 13mm x 1829mm]

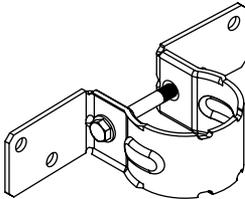


8' Square Board

6" x 1/2" x 96"

[152mm x 13mm x 2438mm]

Bracket, Screw & Nail



Standard Bracket For 2-3/8"

[60mm] Round Galvanized Pipe



Hex Head Self-drilling Screw

#14 1/4" x 1-1/4" [6mm x 32mm]



0° Galvanized Ring Shank

Plastic Coil Siding Nail

1-7/8" x 0.086-Gauge

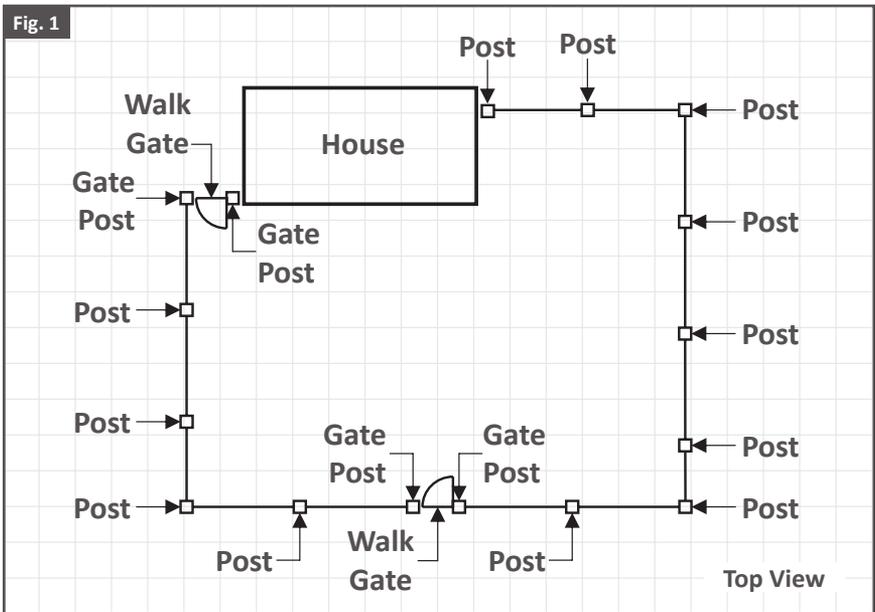
Note:

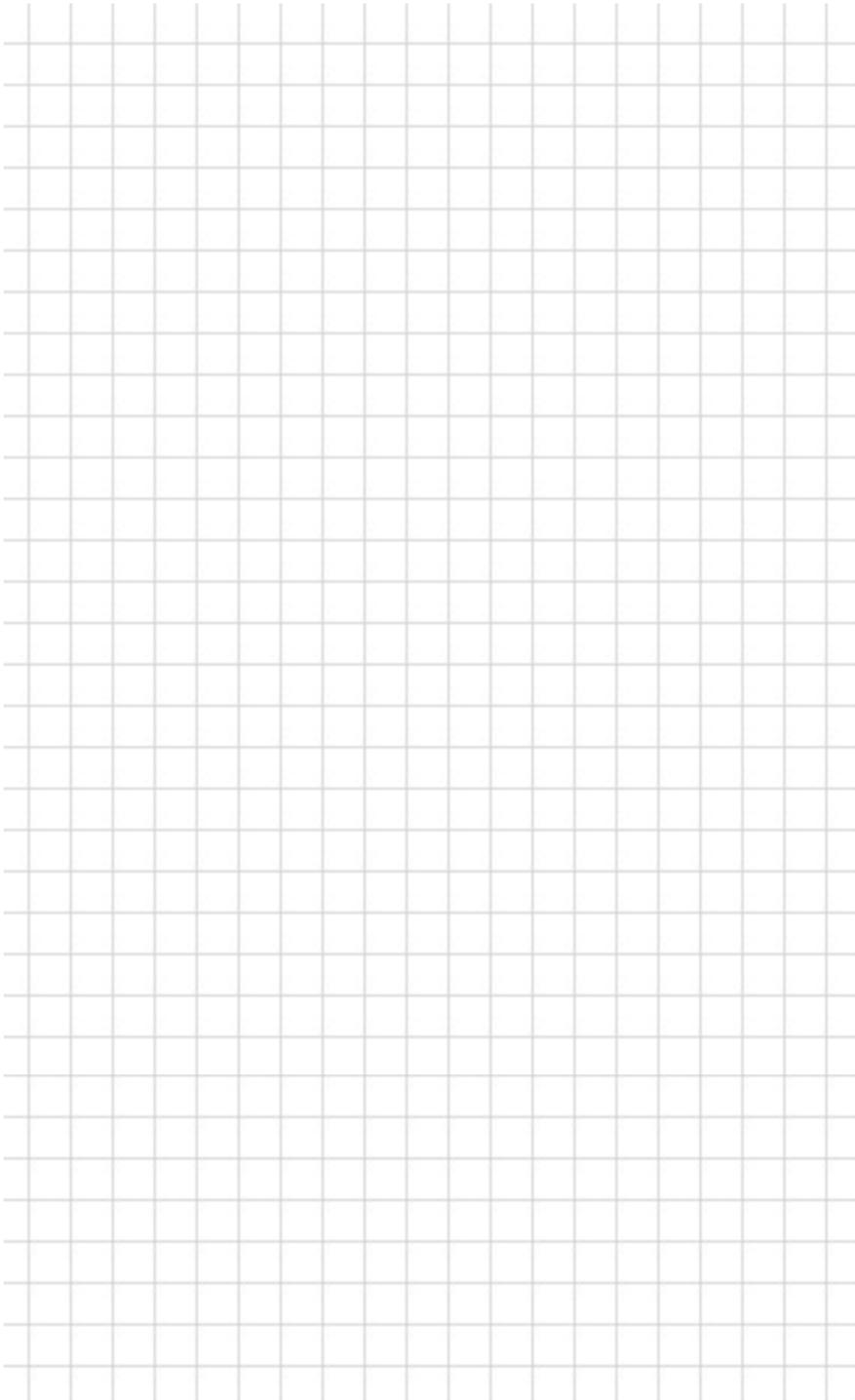
- Fortress Building Products **DOES NOT** provide posts, brackets, screws or nails.

FENCE LAYOUT

Step 1: Sketch Layout of Fence Perimeter

1. Identify the property line and determine the perimeter of your fence project.
2. Using a tape measure determine the length of each fence run.
3. Oasis Fence is easiest to install when starting from a corner. If no gates are used, only one board should need to be cut in a fence run.
4. Posts should be set at a **maximum** of 8' [2438mm] apart on center.
5. Determine the location of gates and mark on drawings. Adjustments to panel length are required at gates.



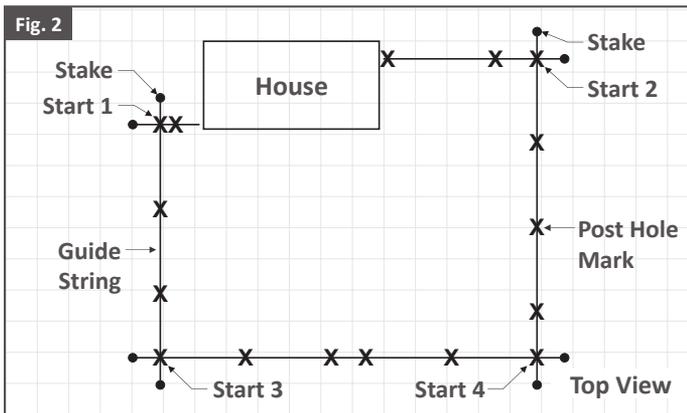


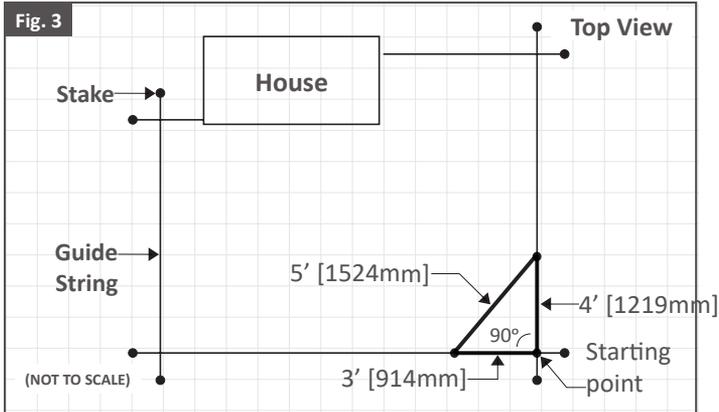
Step 2: Use Stakes & Guide String to Create Perimeter Then Mark Post Hole Locations

1. Using the fence layout sketch as a guide, locate a corner or reference point along each fence run and mark it with a stake.
2. Use a string stretched between stakes located at the end of each fence run, and layout the perimeter of the project.
3. Layout fence so that minimal panel cuts are required; remember to allow for gates. **Maximum** on center post spacing is 8' [2438mm].
4. From starting point, use a tape measure and a marker to mark post hole locations.
5. If layout has 90° corners, confirm that corners form 90° angles and are square.

Tip:

- **How To Square Perimeter:** Fortress recommends using the 3-4-5 rule. Measure and mark 3' [914mm] & 4' [1219mm] from the starting point along guide string, then measure between two markings. Adjust until measurement between markings is exactly 5' [1524mm]. As shown in Fig. 3. Larger triangles, with sides of 6-8-10 and 9-12-15, allow for even more accurate results.



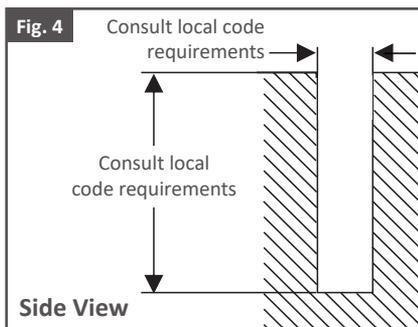


Step 3: Dig Post Holes

1. Consult local code requirements for exact post hole width and depth requirements. As shown in Fig. 4.
2. Dig the post holes using a Post Hole Digger.
3. Be sure to keep the Post Hole Digger straight and plumb when digging.
4. **DO NOT POUR CONCRETE IN THIS STEP.**

Note:

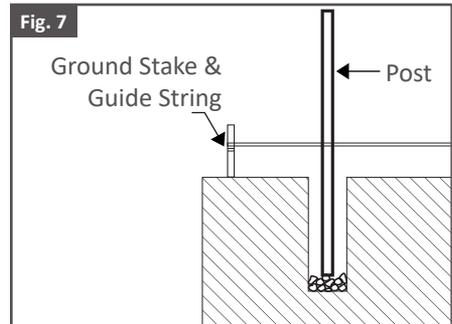
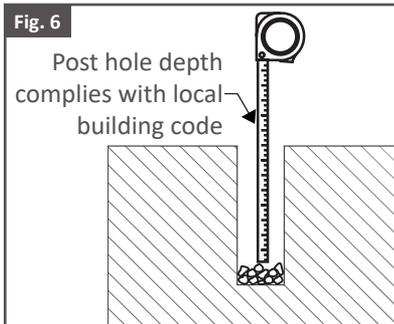
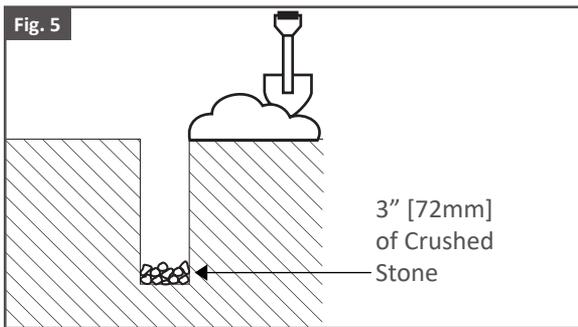
- Call 811 before you dig the post holes to locate and identify any buried utilities.



POST INSTALLATION

Step 1: Set Posts into Post Holes

1. Fill holes with 3" [72mm] of crushed stone to allow for drainage. As shown in Fig. 5.
2. Compact the crushed stone before setting posts.
3. Use tape measure to check depth. Confirm post depths are constant and comply with local building code. As shown in Fig. 6. Adjust if needed.
4. Use the string as a guide when placing posts into each hole. As shown in Fig. 7.

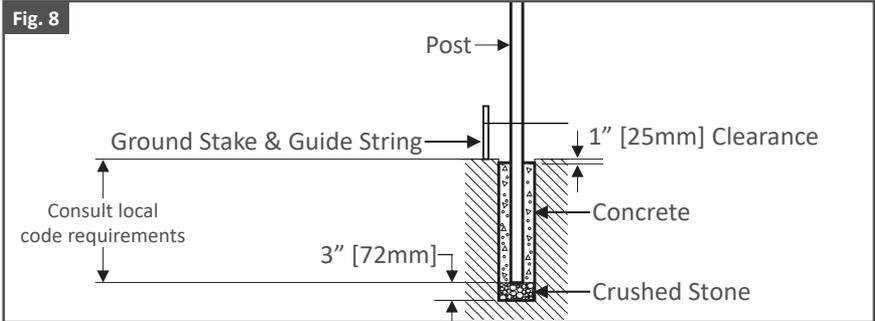


Step 2: Pour Concrete

1. **BEFORE POURING CONCRETE, CONFIRM THE POSTS ARE SPACED CORRECTLY AND SET AT CORRECT DEPTH.**
2. Fill Posts holes with concrete to within 1" [25mm] of the surface of soil. As shown in Fig. 8.
3. Use a level to confirm that corner post is plumb and that the post is aligned with the Guide Strings.

Tip:

- Allow concrete to cure for a minimum of 24 hours before installing post brackets.
- As the concrete cures, be sure to keep posts placed along guide strings & continuously check that they are plumb as well as in line with the next post.



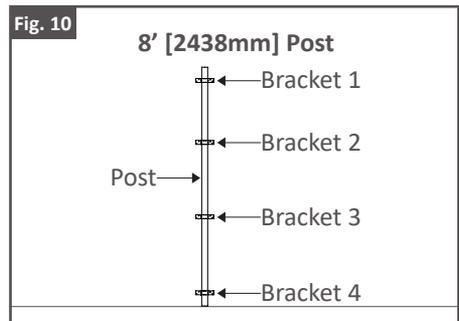
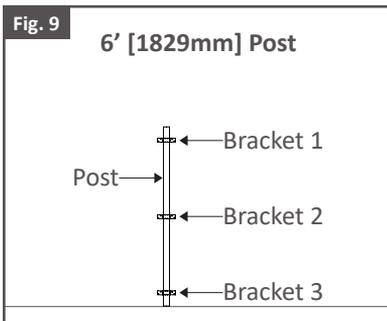
BRACKET INSTALLATION

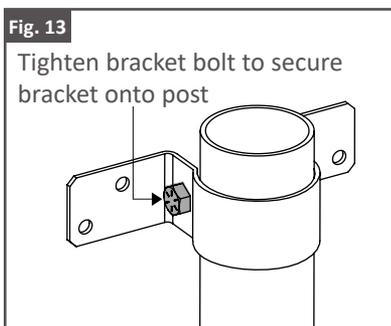
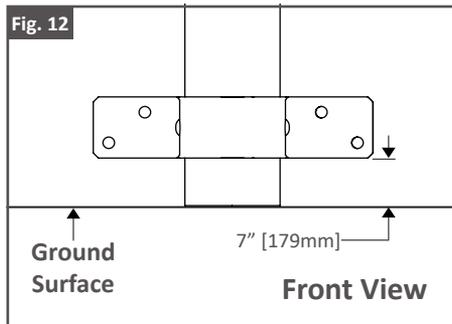
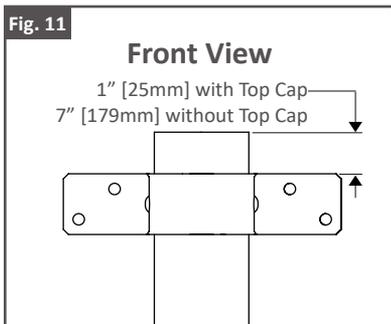
Step 1: Install Brackets onto Corner Posts

1. Divide fence height by number of required post brackets.
6' [1829mm] tall fences require 3 brackets per post.
8' [2438mm] tall fences require 4 brackets per post.
As shown in Fig. 9 & 10.
2. If installing a top cap, position top face of the top bracket 1" [25mm] from top face of the corner posts. As shown in Fig. 11.
3. If **NOT** installing a Top Cap, position top face of the top bracket 7" [179mm] from top face of the corner posts. As shown in Fig. 11.
4. Position bottom face of bottom bracket 7" [179mm] above the ground. As shown in Fig. 12.
5. With top and bottom brackets in desired position, tighten the Hex Head Bolts to secure each post bracket onto the corner posts. As shown in Fig. 13.
6. Position additional brackets spaced evenly between top and bottom brackets on corner posts.
7. With additional brackets in desired position, tighten the post bracket bolt to secure each bracket onto the corner posts.

Tip:

- Hex Head Bolts may need to be loosened and adjusted, when installing Rails with Z-Channel.
- Use a Claw Hammer if adjusting post brackets.



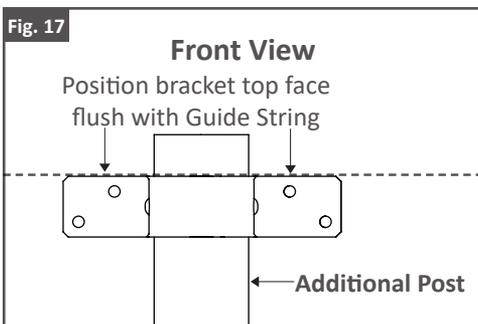
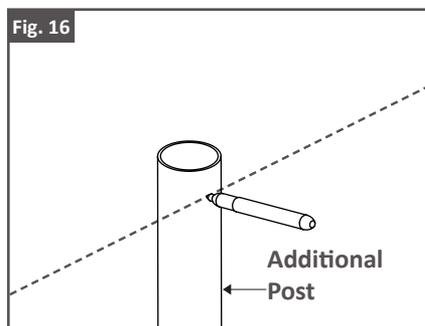
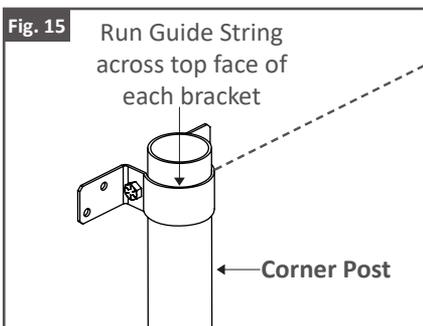
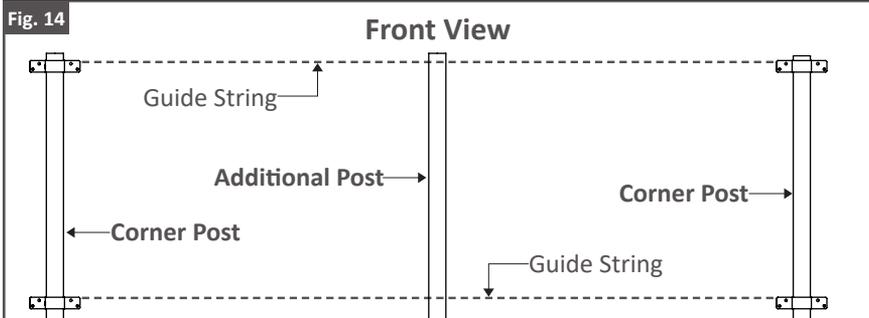


Step 2: Install Brackets onto Additional Posts in Fence Run

1. Tie Guide String along the top faces of the post brackets previously secured to the corner posts. As shown in Fig. 14 & 15.
2. Mark the Guide String position onto the additional posts in fence run. As shown in Fig. 16.
3. Position top face of brackets along Guide String markings on additional posts. As shown in Fig. 17.
4. Tighten Hex Head Bolt to secure bracket onto post. As shown in Fig. 13 above.

Tip:

- Be sure to have Guide String pulled as tight as possible.
- Hex Head Bolts may need to be loosened and adjusted when installing Rails with Z-Channel.



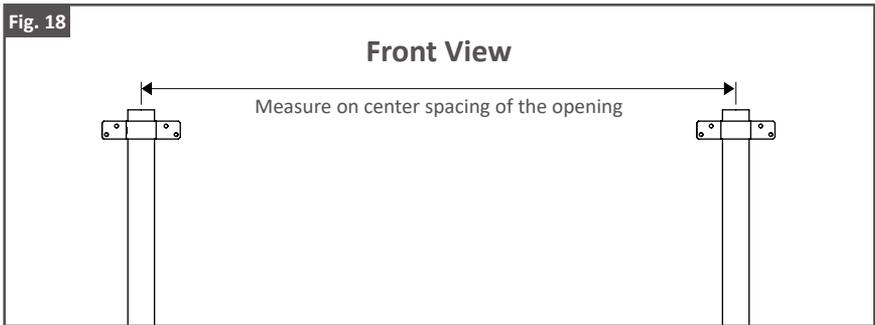
RAIL INSTALLATION

Step 1: Cut Rail to Desired Length (If Required)

1. If required rail length is less than 8' [2438mm], measure on center spacing of the opening.
2. Use the Reciprocating Saw or Portable Bandsaw to make your cuts.

Note:

- A ferrous metal cutting blade must be used to cut Oasis Rails with Z-Channel.



Step 2: Install Rails with Z Channel

1. Position each required Rail with Z Channel in fence run centered along post brackets. If installing a Top Cap, be sure the top face of the top Rail with Z Channel is flush with top face of posts. As shown in Fig. 19 & 20.
2. Use #14 1/4" X 1-1/4" [6mm x 32mm] Hex Head Self-drilling Screws to fasten the Rail with Z Channel onto the bracket and post. As shown in Fig. 21.
3. For corner installation, the face of the Rails with Z Channel in the new run should be flush with the edge of the Rails with Z Channel in the previous run. The post bracket flap can be unfolded to fit the shape of the corner. As shown in Fig. 22 & 23.

Tip:

- Install Rails with Z Channel from lowest to highest brackets on posts.
- Be sure to keep rails level before and during fastening.

Fig. 19

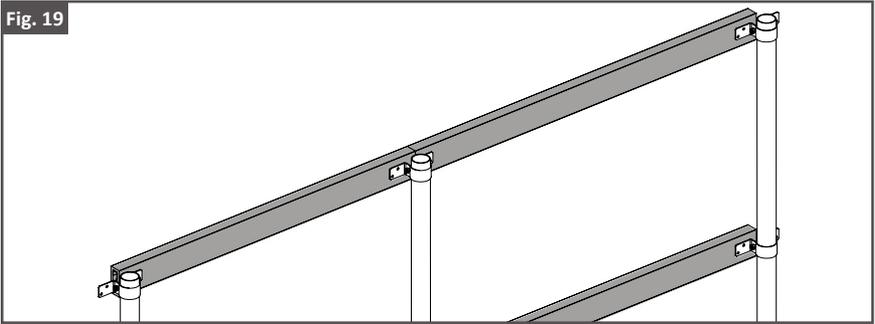


Fig. 20

Front View

Top face of post flush with top face of Rail with Z Channel if installing Top Cap

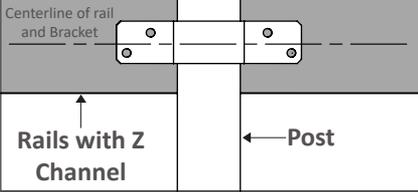


Fig. 21

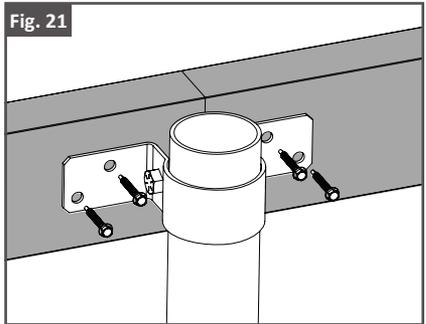


Fig. 22

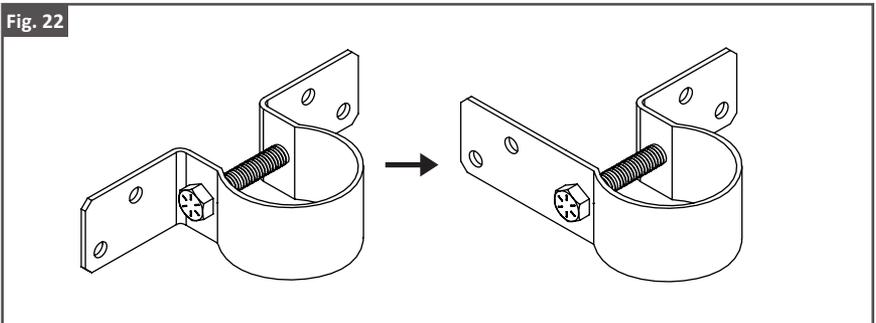
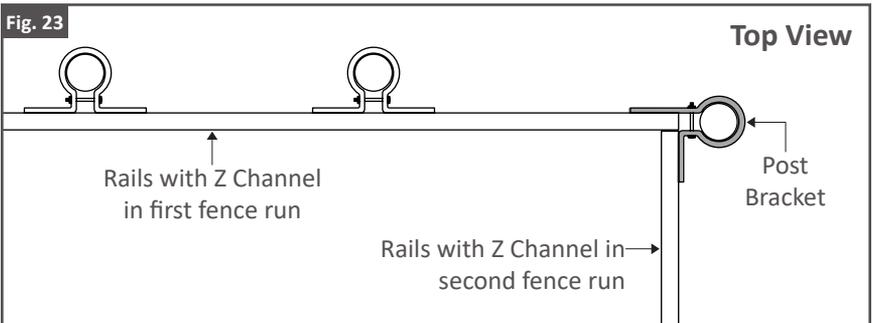


Fig. 23

Top View

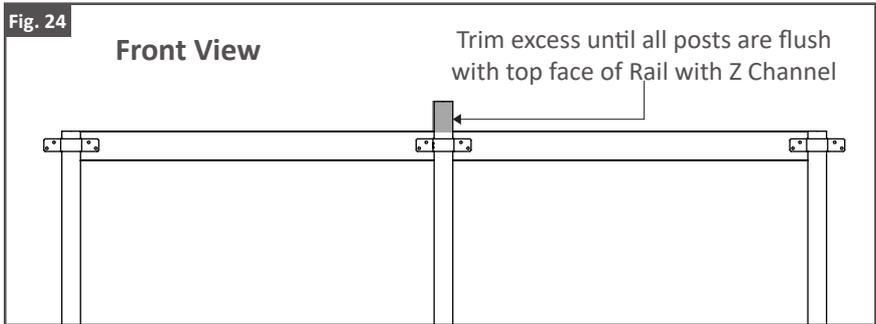


Step 3: Cut Posts To Desired Height (If Installing Top Cap)

1. Use the Reciprocating Saw or Portable Bandsaw to Trim excess until post is flush with top face of Rail with Z Channel. As shown in Fig. 24.
2. Remove any metal shavings and dust with a brush or rag.

Tip:

- Be sure post heights are consistent along all posts.



BOARD INSTALLATION: SIDE BY SIDE

Step 1: Install Boards

1. Starting at a corner or end, line up the first board flush with the ends of the Rails with Z Channel and top face of posts. Secure the board by driving 2 nails centered into each Rail with Z Channel and 1-1/4" [32mm] from board edge. As shown in Fig. 25 - 27.
2. Continue this process along the fence run, making sure to check periodically that panels are flush and plumb. As shown in Fig. 28.
3. For the final board in the fence run, measure the remaining opening before mounting board. As shown in Fig. 29.
4. If measured opening width is less than width of board, rip the final board (cut along its length) as necessary to fit and maintain proper spacing.
5. After you turn a corner and start a new fence run, the edge of the first board in the new run should be flush with the face of the final board in the previous run. As shown in Fig. 30.

Tip:

- Set PSI level on the nail gun so nail is securely accepted and seated flush in board without mushrooming or bounce back. Test with scrap pieces.
- Use a Table Saw to rip the final board to the desired width. If your pickets have a dog ear at the top, mark a new dog ear with a Speed Square and cut with a Miter Saw.

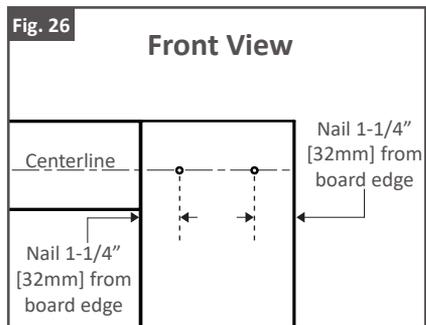
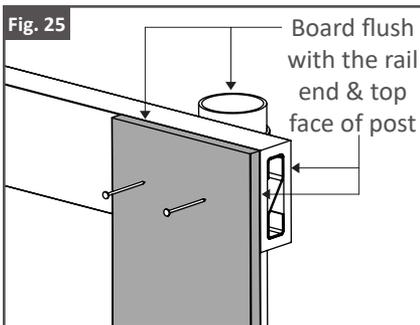


Fig. 27

Side View

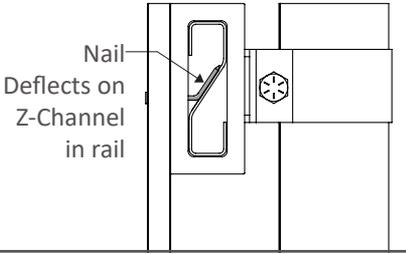


Fig. 28

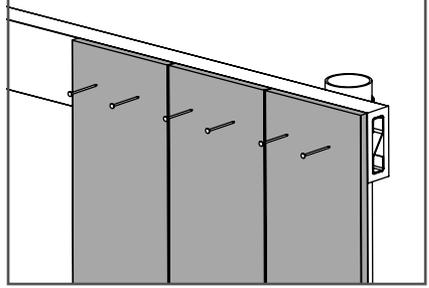


Fig. 29

Measure remaining
opening in fence run

Front View

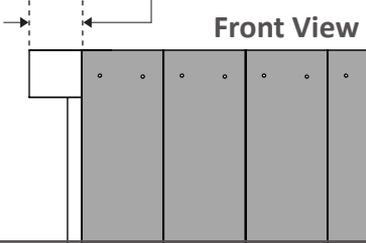


Fig. 30

First
fence run Second
fence run

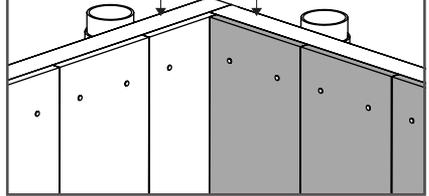


Fig. 31

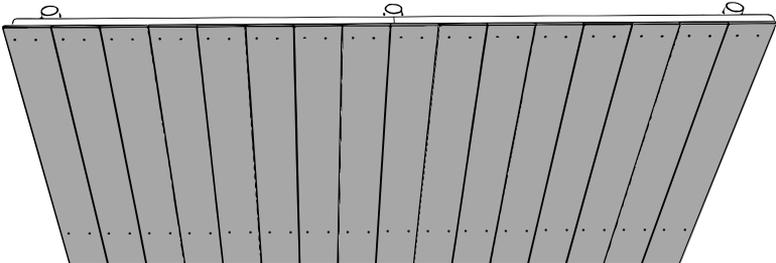
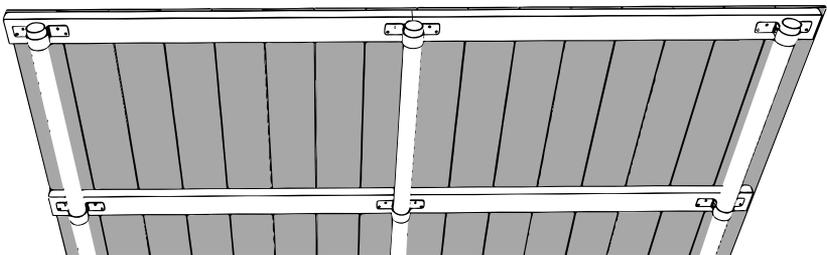


Fig. 32



BOARD INSTALLATION: BOARD ON BOARD

Step 1: Install Base Layer Boards

1. Starting at a corner or end, line up the first board flush with the ends of the Rails with Z Channel and top face of posts. Secure the board by driving 2 nails centered into each Rail with Z Channel and 1" [25mm] from board edge. As shown in Fig. 33 - 35.
2. Continue this process along the run, making sure to check periodically that panels are plumb. Use a straight 2" x 4" [51mm x 102mm] piece of lumber to evenly space the base layer boards (3-1/2" [89mm]). As shown in Fig. 36.
3. For the final board in the base layer of fence run, position a straight 2" x 4" [51mm x 102mm] piece of lumber then measure the remaining opening before mounting the final board. As shown in Fig. 37.
4. If measured opening width is less than width of board, rip the final board (cut along its length) as necessary to fit and maintain proper spacing. The final board, at a corner, should be flush with the ends of the Rails with Z Channel.
5. Overlap the boards at corners. After you turn a corner, the edge of the first board in the new run should be flush with the face of the final board in the previous run. As shown in Fig. 38.

Tip:

- Set PSI level on the nail gun so nail is securely accepted and seated flush in board without mushrooming or bounce back. Test with scrap pieces.
- Nominal 2" x 4" [51mm x 102mm] is recommended, but ultimately board spacing is to the installer's discretion. Be sure desired board spacing is consistent throughout the fence project.
- Use a Table Saw to rip the final board to the desired width. If your pickets have a dog ear at the top, mark a new dog ear with a Speed Square and cut with a Miter Saw.

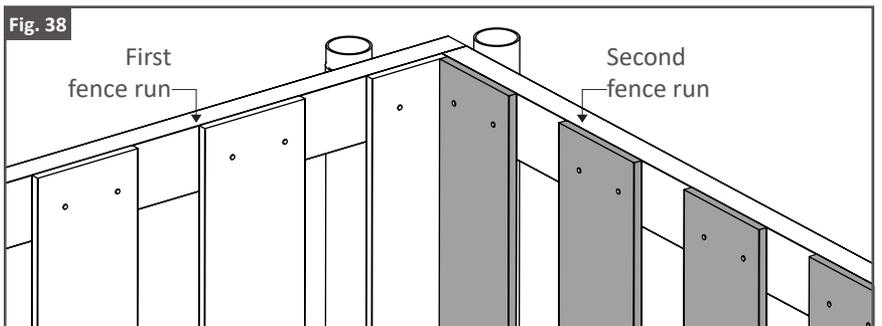
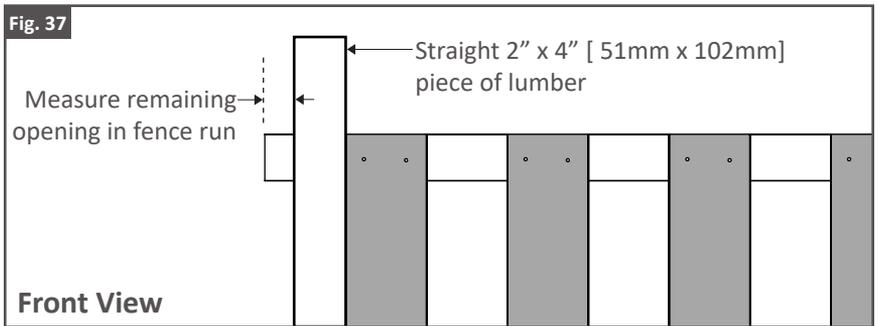
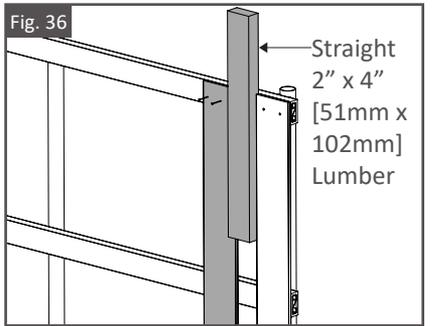
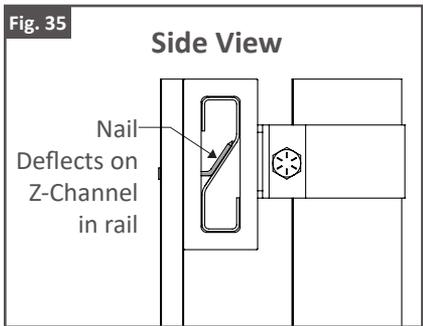
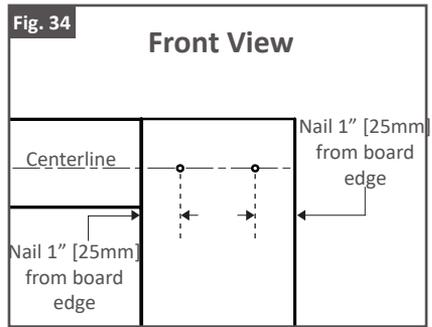
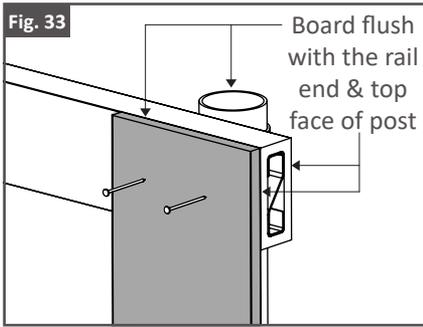


Fig. 39

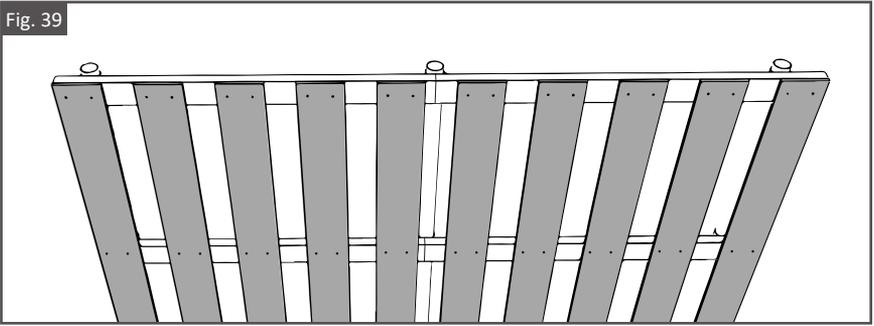
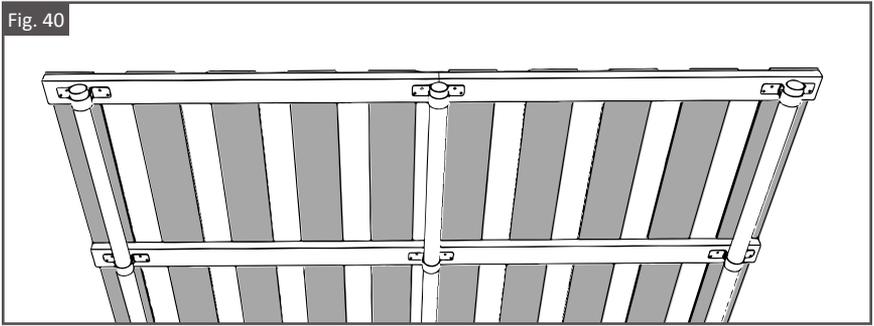


Fig. 40



Step 2: Install Top Layer Boards

1. Position top layer boards spaced evenly between the base layer boards. Fasten top boards with 2 nails each centered along each overlap point for each Rail with Z Channel. As shown in Fig. 41 - 44.
2. Overlap the boards at corners. After you turn a corner, the edge of the first board in the new run should be flush with the face of the final board in the previous run. As shown in Fig. 45.

Fig. 41

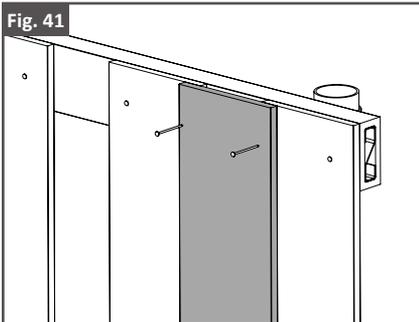


Fig. 42

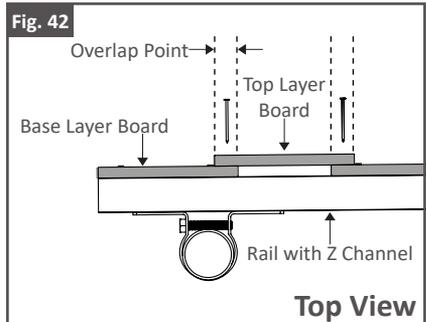


Fig. 43

Side View

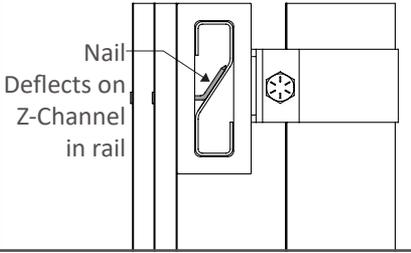


Fig. 44

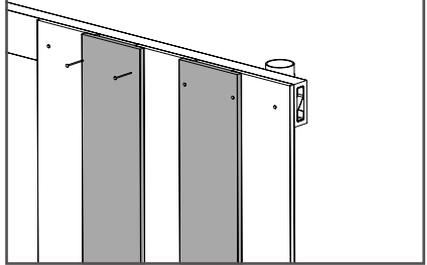


Fig. 45

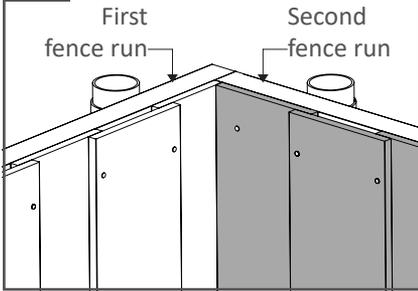


Fig. 46

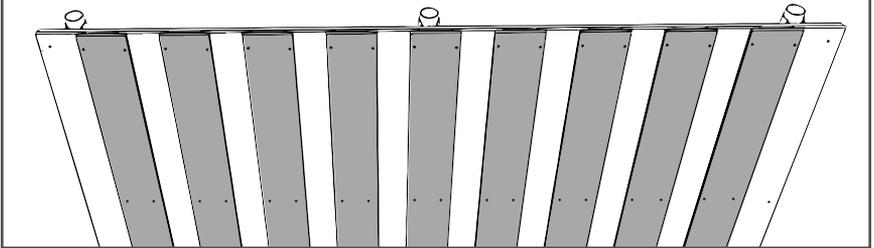
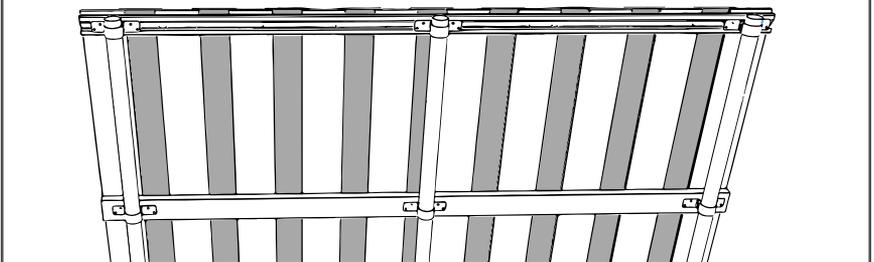


Fig. 47



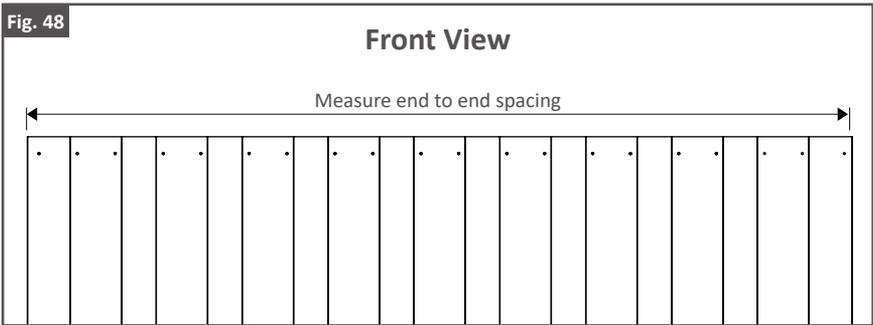
TOP CAP INSTALLATION (OPTIONAL)

Step 1: Cut Top Cap (If Required)

1. Top Caps are 8' [2438mm] in length. If opening is less than 8' [2438mm], the Top Cap will need to be cut to the required length.
2. Measure end to end length of fence run. As shown in Fig. 48.

Tip:

- Use a Miter Saw to cut the Top Cap to the desired length.



Step 2: Install Top Cap

1. Position the Top Cap onto top face of boards. Align the Top Cap with the outside edge of the Rail with Z Channel and outer edge of the post. As shown in Fig. 49 & 50.
2. Determine the center of the rail and mark on the top face of Top Cap. As shown in Fig. 51.
3. Use #14 1/4" x 1-1/4" [6mm x 32mm] Hex Head Self-drilling Screws to mount the Top Cap onto the rail. As shown in Fig. 52 & 53.

Tip:

- Before drilling, determine equal spacing for screws. Screws should be installed a **minimum** of 16" [406mm] apart. As shown in Fig. 54.

Fig. 49

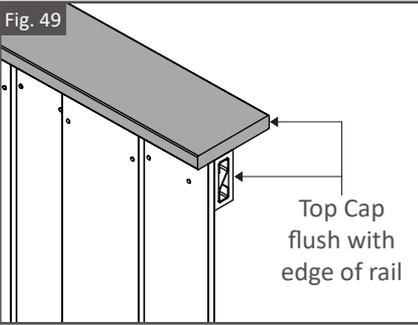


Fig. 50

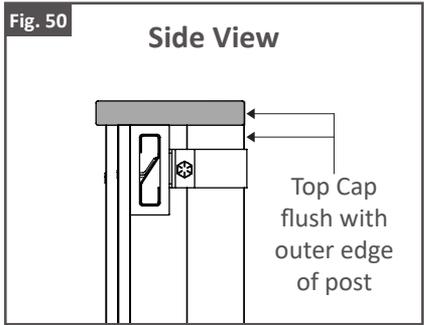


Fig. 51

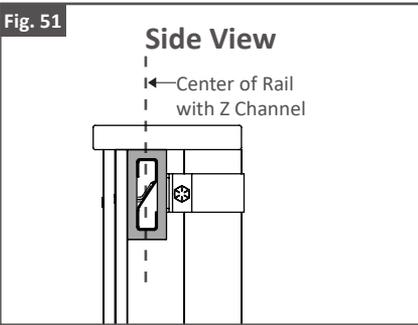


Fig. 52

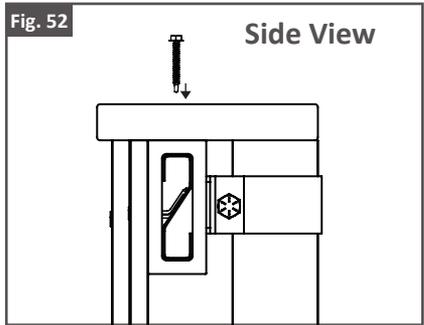


Fig. 53

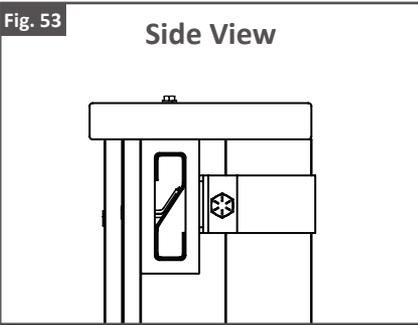
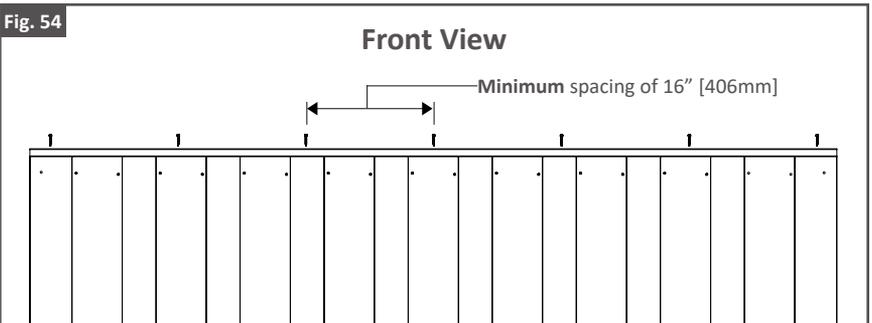


Fig. 54

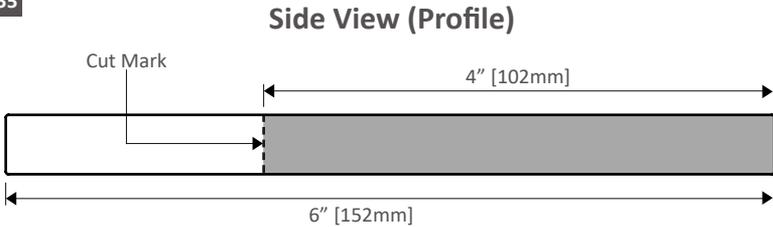


ACCENT BOARD INSTALLATION (OPTIONAL)

Step 1: Cut board

1. Measure and mark 4" [102mm] along short side of board. As shown in Fig. 55.
2. Use a Table Saw to rip the board (cut a long its length) to the correct width.
3. Once cut, you will have two pieces - 4" x 96" [102mm x 2438mm] and 2" x 96" [51mm x 2438mm].

Fig. 55

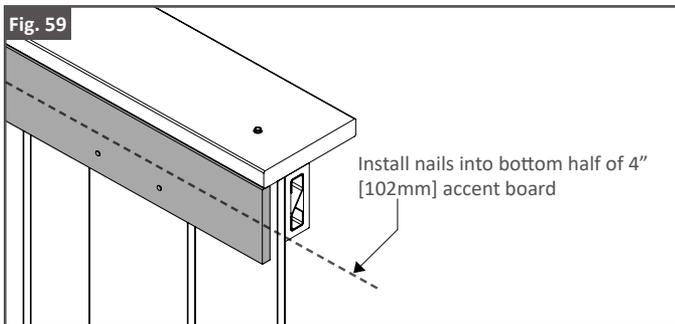
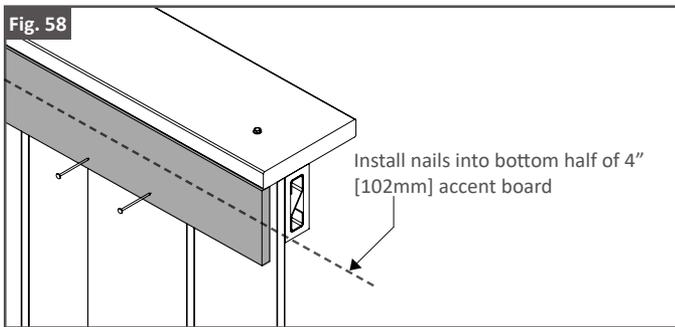
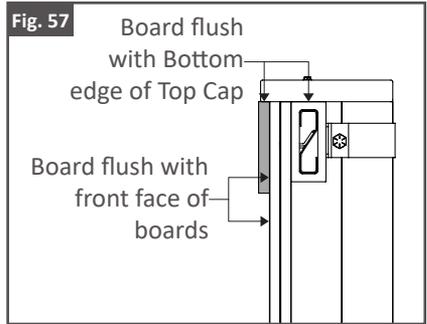
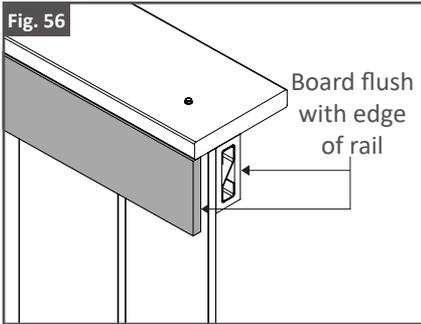


Step 2: Install 4" [102mm] board

1. Position 4" [102mm] board along the bottom face of the Top Cap, front face of boards (Top layer boards for board on board application), and edge of Z-Channel Rail. As shown in Fig. 56 & 57.
2. Secure the board by driving 2 nails into each rail. As shown in Fig. 58 & 59.

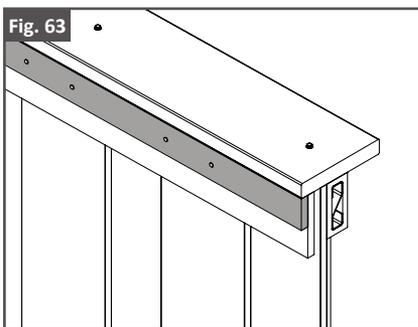
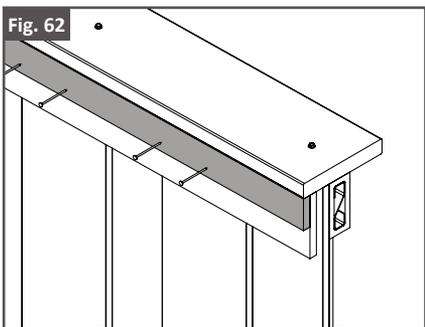
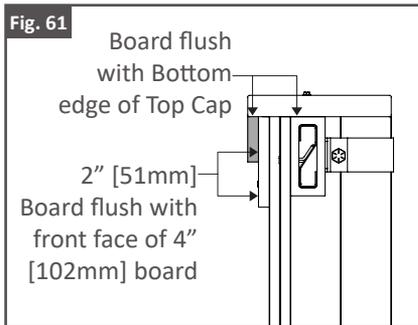
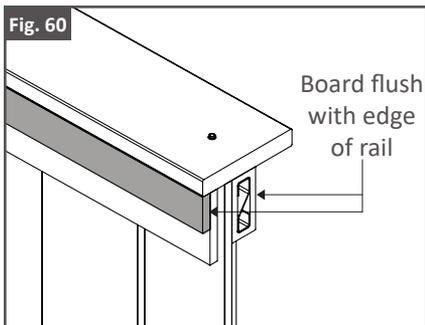
Tip:

- If installing second layer of accent boards (2" [51mm] board), install nails into bottom half of the 4" [102mm] accent board. As shown in Fig. 58 & 59.



Step 3: Install 2" [51mm] board

1. Position 2" [102mm] board along the bottom face of the Top Cap, in front of the 4" [102mm] board, and edge of Z-Channel Rail. As shown in Fig. 60 & 61.
2. Secure the board by driving 2 nails into each rail. As shown in Fig. 62 & 63.



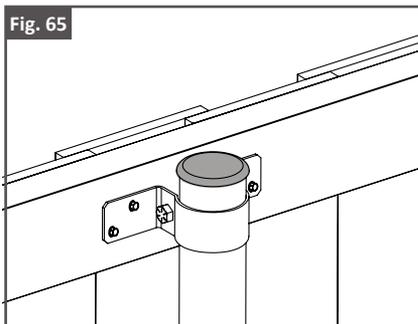
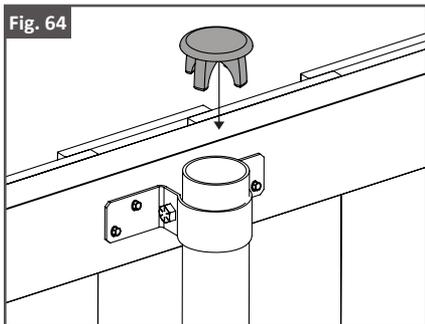
POST CAP INSTALLATION (OPTIONAL)

Step 1: Install Post Cap

1. Post Caps are press fit into place. As shown in Fig. 64 & 65.

Note:

- Post Caps are **NOT** provided by Fortress Building Products.



CARE & MAINTENANCE

***DO NOT USE STANDARD COMPOSITE FENCE CLEANERS ON OASIS FENCE.**

CLEANING YOUR FENCE BOARDS

What you will need



Soap



Water



Bucket



Sponge



Hard-Bristled
Broom



Pressure Washer

STEP 1: Apply soapy water to your fence with a sponge.

STEP 2: using a cleaning brush, scrub boards to remove dirt & residue. Scrub fence boards in the direction of the grain.

STEP 3: Rinse fence boards with clean water.

STEP 4: If fence boards are still dirty, a pressure washer can be used.

Note:

- If using a pressure washer, keep nozzle at least 12" [305mm] away from Fence Board surface.

General Care

- Wash Oasis Fence profile periodically using standard household cleaners.

WARRANTY

To obtain and review a copy of the warranty, please go to:

<https://Fortressbp.com/warranties>. You can also contact:

(844) 909-1999 or write to: Fortress Building Products Warranty, 1720 N 1st St, Garland, TX 75040 to obtain a copy of the warranty.



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