

## Modern ALU Fence Installation Guide

### Fence Styles

Modern ALU Grain Privacy	Modern ALU Privacy	ALU Grain Privacy	ALU Privacy
Horizontal Grain Style with Aluminum	Horizontal Style with Aluminum	Vertical Grain Style with Aluminum	Vertical Style with Aluminum
AMPG1	AMPV1	ALPG1	ALPV1
AMPG2	AMPV2	ALPG2	ALPV2
AMPG3	AMPV3	ALPG3	ALPV3

## STEP 1

Please read these instructions carefully before installing your Modern ALU Fence.  
If you have questions, please call customer service at 1-800-483-4674 for assistance.

### Before You Get Started:

- It is the law to notify all local Utility Companies for locates of all buried services.
- Check local zoning laws, Homeowner Associations for any height, styles, or fence location that may have to be approved before construction begins.
- Make sure where all property lines are located.

Take a few minutes to inventory all items needed are accounted for. If any items are missing or damaged, please call customer service 1-800-483-4674.

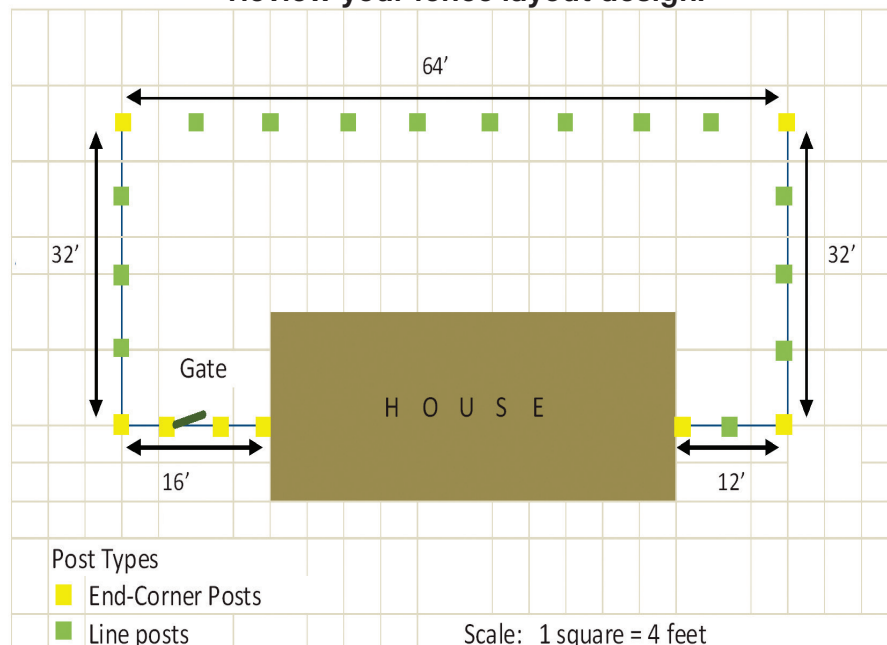
### Tool Check List:

Post hole digger	Safety Goggles
Gloves	Tape measure
String lines X's 2	Rubber mallet
Shovel	Concrete
Wheelbarrow	Wooden Stakes
Level	Cordless or Electric Drill
Framing Square	Hacksaw
1/8" - 3/16" Drill bits	Associated Drive Bits
Pen Marker	1/4 x 1" Stainless Screws

**Note:** Fasteners / screws required for fence installation need to be purchased separately, except Gate Kits it's included.

## STEP 2

Review your fence layout design.



# STEP 3 Fence Section & Post Overview

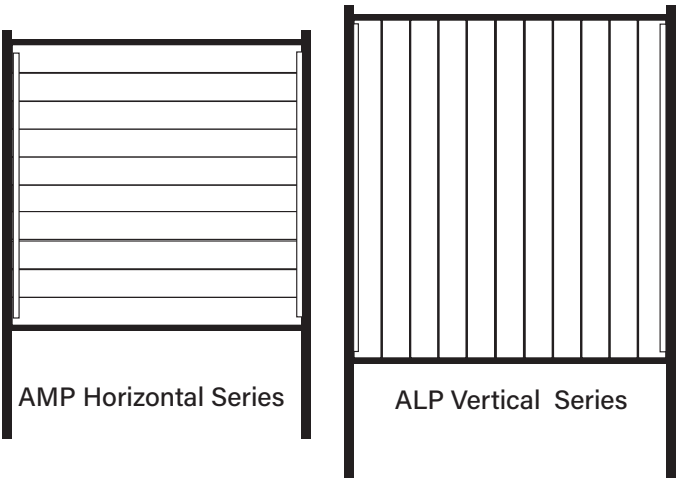
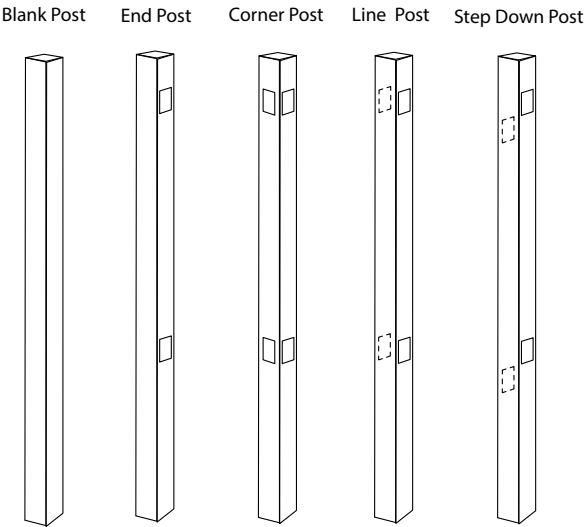


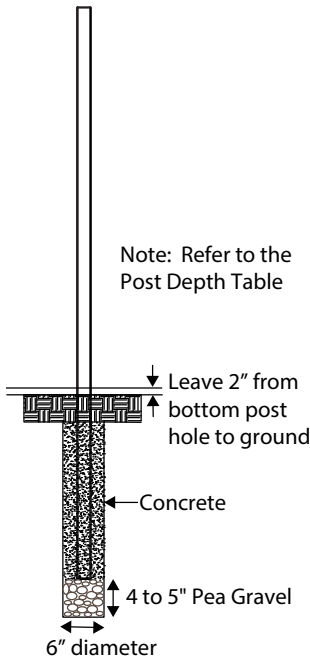
Fig. 3a



# STEP 4 Post Spacing

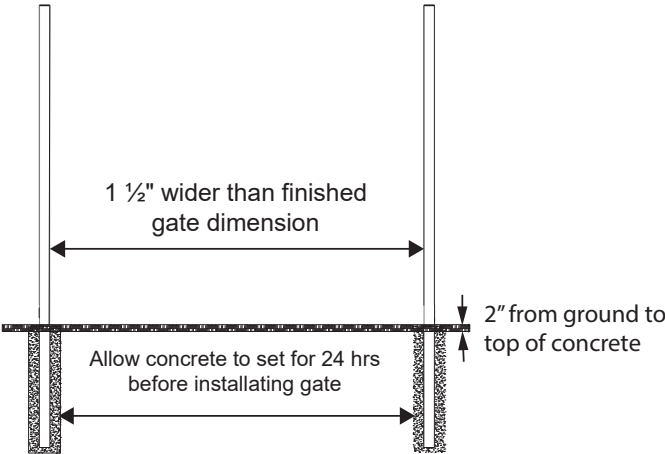
## Gate Post Spacing Ledger

Fig. 4a (Post Spacing)



Gate Post Spacing:  
Pre-assembled gate spacing for all styles of fences 48" 54" 60" 72" tall is 45 1/2" between posts.  
All pre-assemble gates are 44" wide.

Fig. 4b (Gate Post Spacing)



Post Depth Chart				
Fence Style	Fence Heights			Post Centers
AMPG1, AMPG2, AMPG3	4'	5'	6'	66"
AMPV1, AMPV2, AMPV3				69"
ALPG1, ALPG2, ALPG3				
ALPV1, ALPV2, ALV3				
Post Hole Depth	28"	28"	28"	
	Dig all post holes 6" in diameter			

Fig. 3C

## STEP 5 Post Layout and Installation

Using your fence layout design in STEP 2 determine where each Corner, End and Gate posts will be installed.

- Following the Post Depth Chart in Fig. 3c, dig holes to proper depth.
- Fill hole with 5" to 6" of pea gravel.
- Insert corner and end post into hole and tap down with rubber mallet until the space from the ground to the bottom of the bottom hole is 2".
- Mix enough concrete to fill all around the outside of the post to within approx. 2" of ground level. Mix concrete to a stiff consistency to help with set-up time.
- With a level check to make sure post is plumb. **Note:** we suggest that after approximately 20/30 minutes that you double check previous set posts to make sure they have not sunk or become out of plumb.
- When Installing line post the following day follow the steps above.
- Allow corner, end and gate posts to set up for a **minimum of 24 hrs.**

Fig. 5a

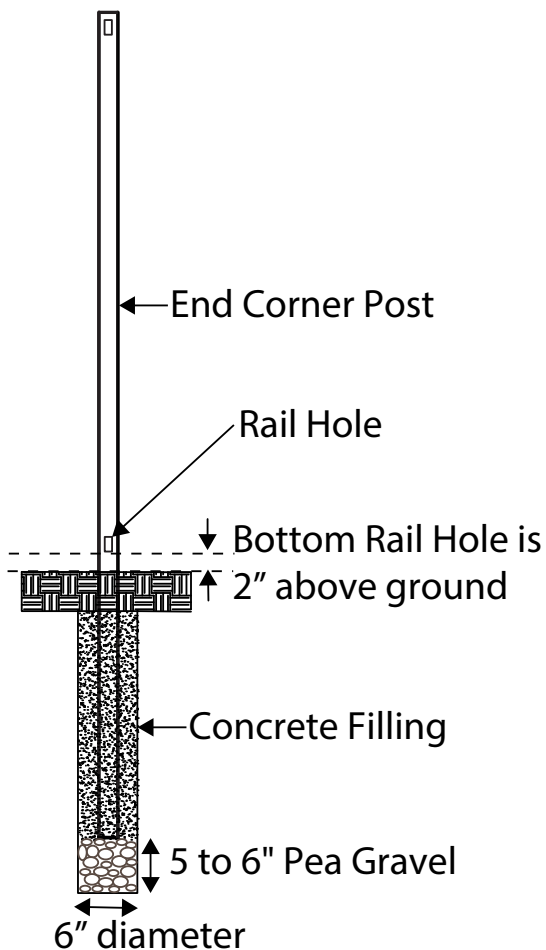


Fig. 5b

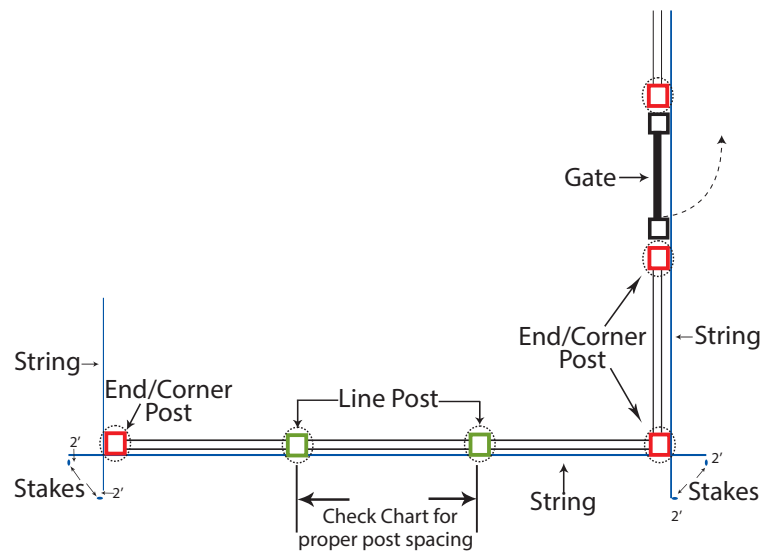
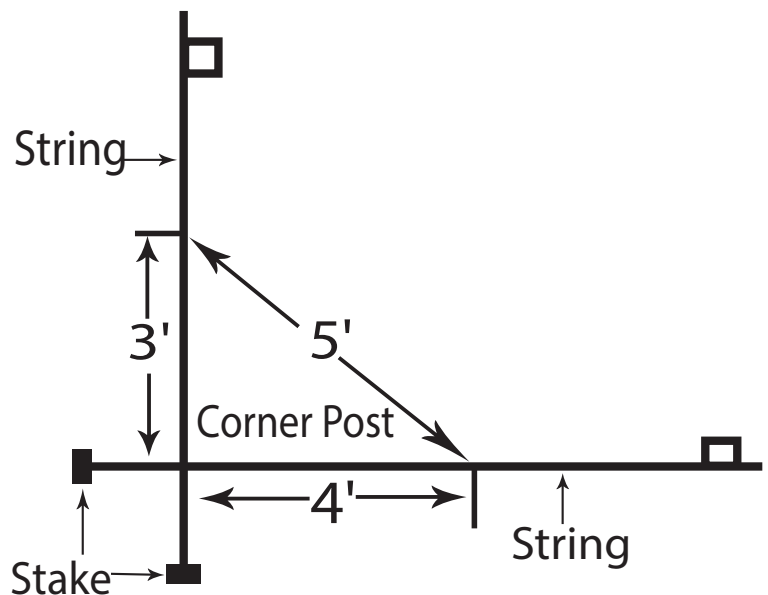


Fig. 5c



## STEP 6 Installing Line Posts and Bottom Rails

- A. With two (2) string lines fasten one approximately 4" above the ground around a corner or end post and attach it to the last post in the fence run. See Fig. 6a.
- B. Second string needs to be installed so that it is resting on top of the end or corner posts. this line is attached to stakes in the ground at each end of fence run. See Fig. 6b.

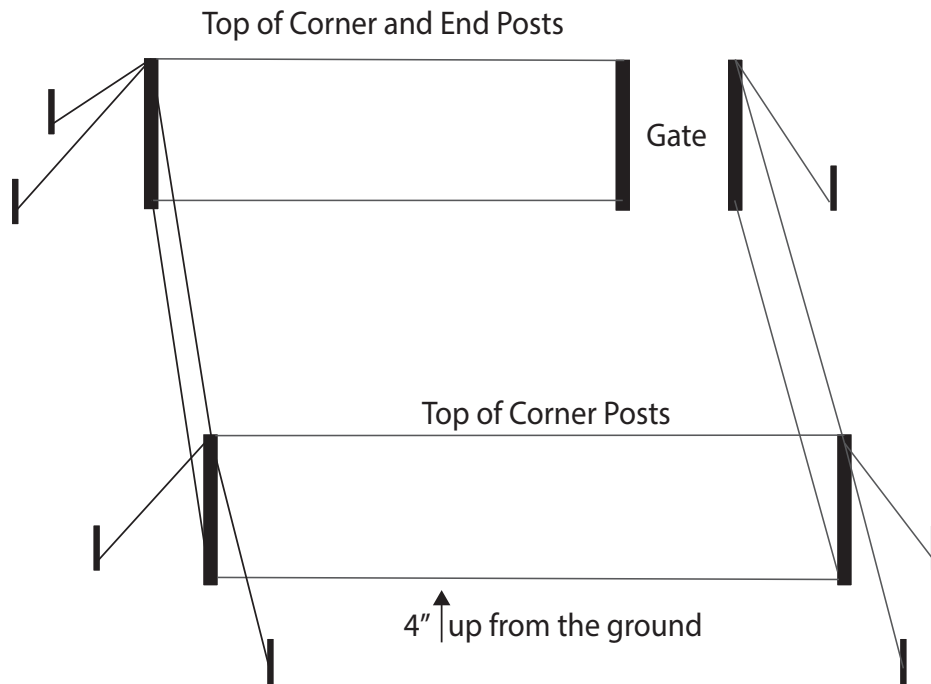
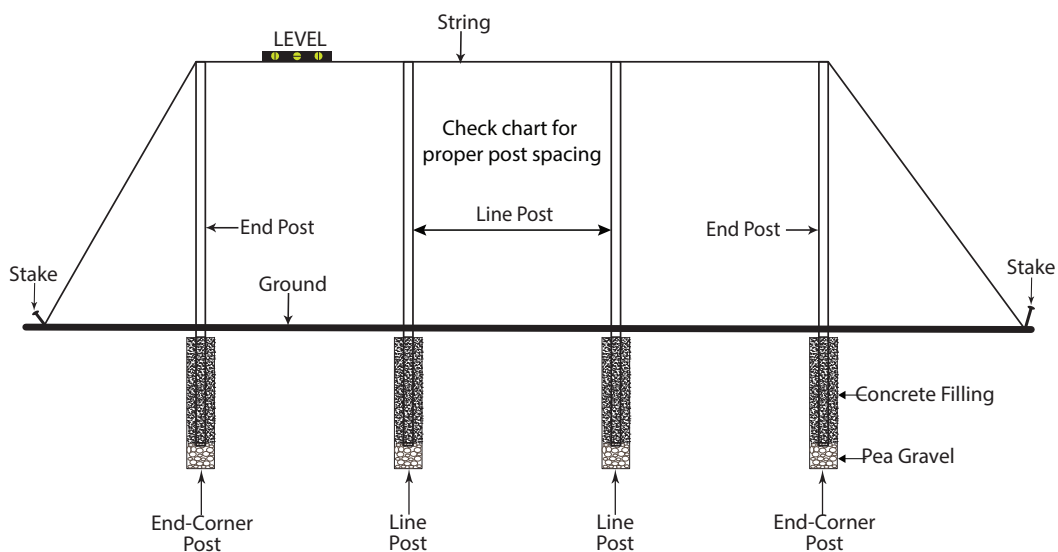


Fig. 6a (Fence Layout)

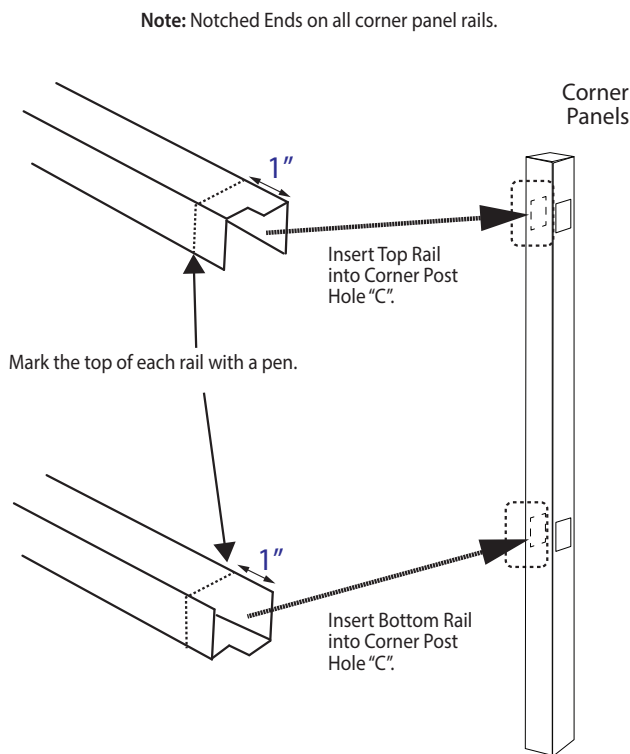
Fig. 6b



- C. When installing posts starting at a corner, special care needs to be taken. Each corner posts top routed hole is marked with a ("C") sticker. Corner rails are labeled and must be installed with the specialty notched ends being inserted into the routed holes marked ("C"). See Fig. 6c

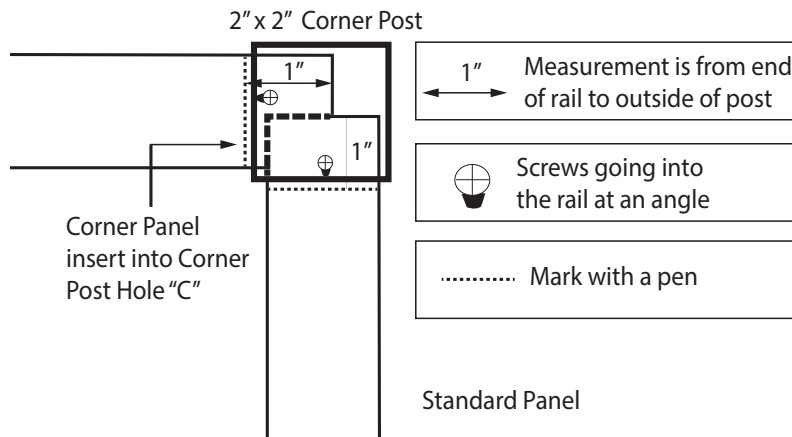
All rails must be inserted into each post a Maximum of 1". Before installing each rail make a mark on the top of each rail 1" from end using a marker or with painter's tape. See Fig. 6c.

Fig. 6c



- D. Refer to Fig. 6a & 6b to mark where the first line post and bottom rail is to be installed. All posts need to be installed with the proper spacing between each post so that rails can be installed correctly.
- E. If your layout has corner posts, always install your line posts and bottom rails starting at and working away from a corner post. When installing corner rails ALWAYS start with MARKED CORNER RAILS. FIRST INSTALLING each into corner post routed hole marked ("C"). Secure each corner rail into post by installing # ¼ x 1" Black stainless-steel screws into the top of each corner post and into the outside of each rail at the bottom. See Fig. 6d.

Fig. 6d  
Top of Corner Post



- F. Fence runs with only end posts, the line post and bottom rail can be installed beginning with a post closest to any end post. The line post and bottom rail is now ready to install. See Fig. 6e and Fig. 6f. Follow the same installation procedure as outlined in STEP 5 and 6.

Top of line post should be at the same height as top string line and outside of post should be against the bottom string line.

**IMPORTANT! THIS STYLE OF FENCE IS RECOMMENDED TO BE INSTALLED ONE WAY.**

1. ALL POSTS AND BOTTOM RAILS SHOULD BE INSTALLED TOGETHER UNTIL ENTIRE FENCE LAYOUT IS COMPLETE.
2. ALLOW ALL POSTS WITH BOTTOM RAILS TO SET FOR A MINIMUM OF 24 hrs. BEFORE INSTALLING END CHANNELS, VINYL PICKETS, AND TOP RAILS.

- G. Secure all bottom rails at all end and corner post by installing a stainless steel screws #  $\frac{1}{4}$  x 1" . See Fig. 6d. It is not necessary to install screws into the bottom rails at line posts. This is an option for each installation.

Remember every 30/40 minutes to go back on the posts that are concreted in to make sure they have not sunk or become out of plumb. Repeat this procedure until all line posts and panels are installed.

Fig. 6d  
Bottom of Corner Post

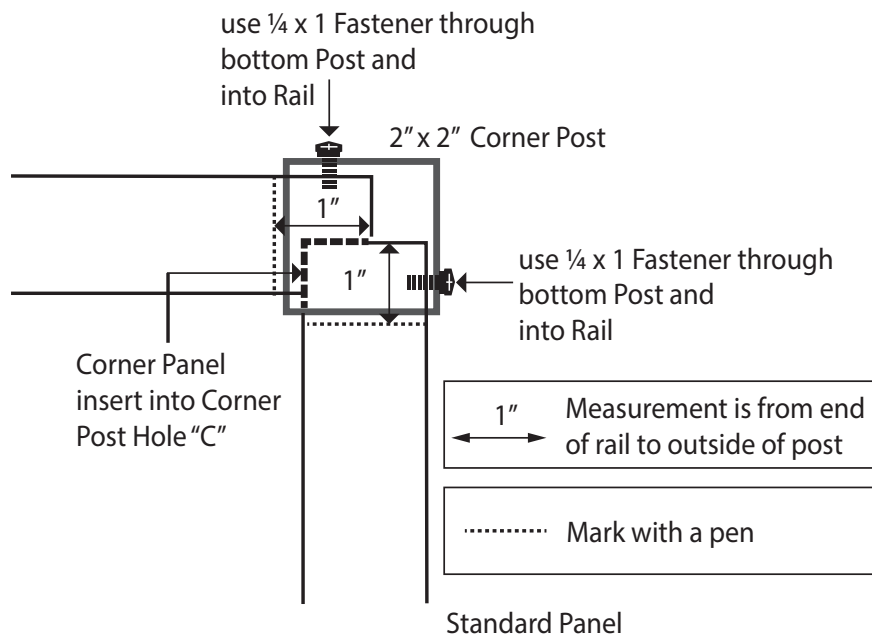


Fig. 6e  
Modern ALU End Post Installation

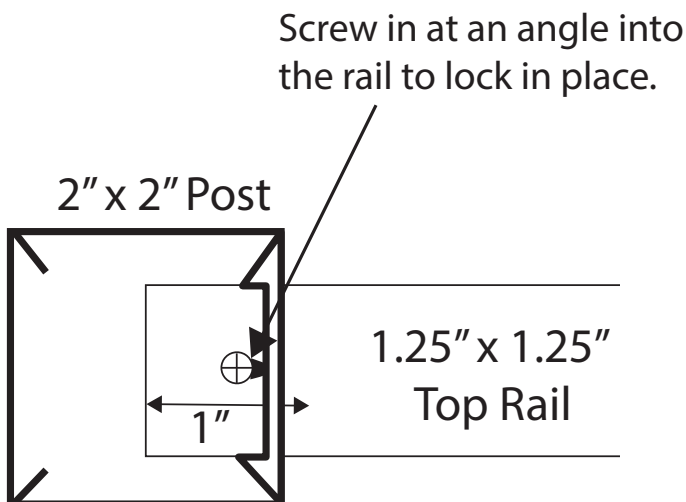
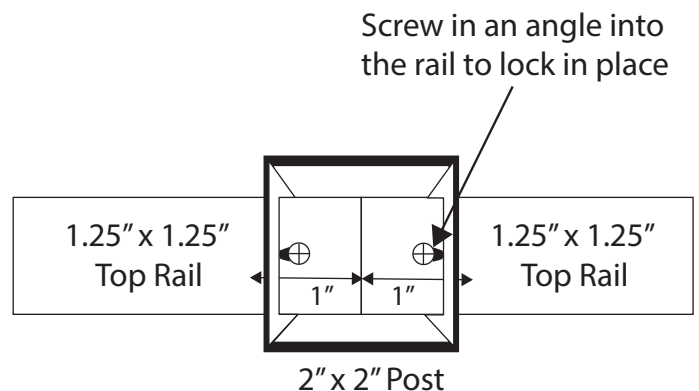


Fig. 6f  
Modern ALU Line Post Installation

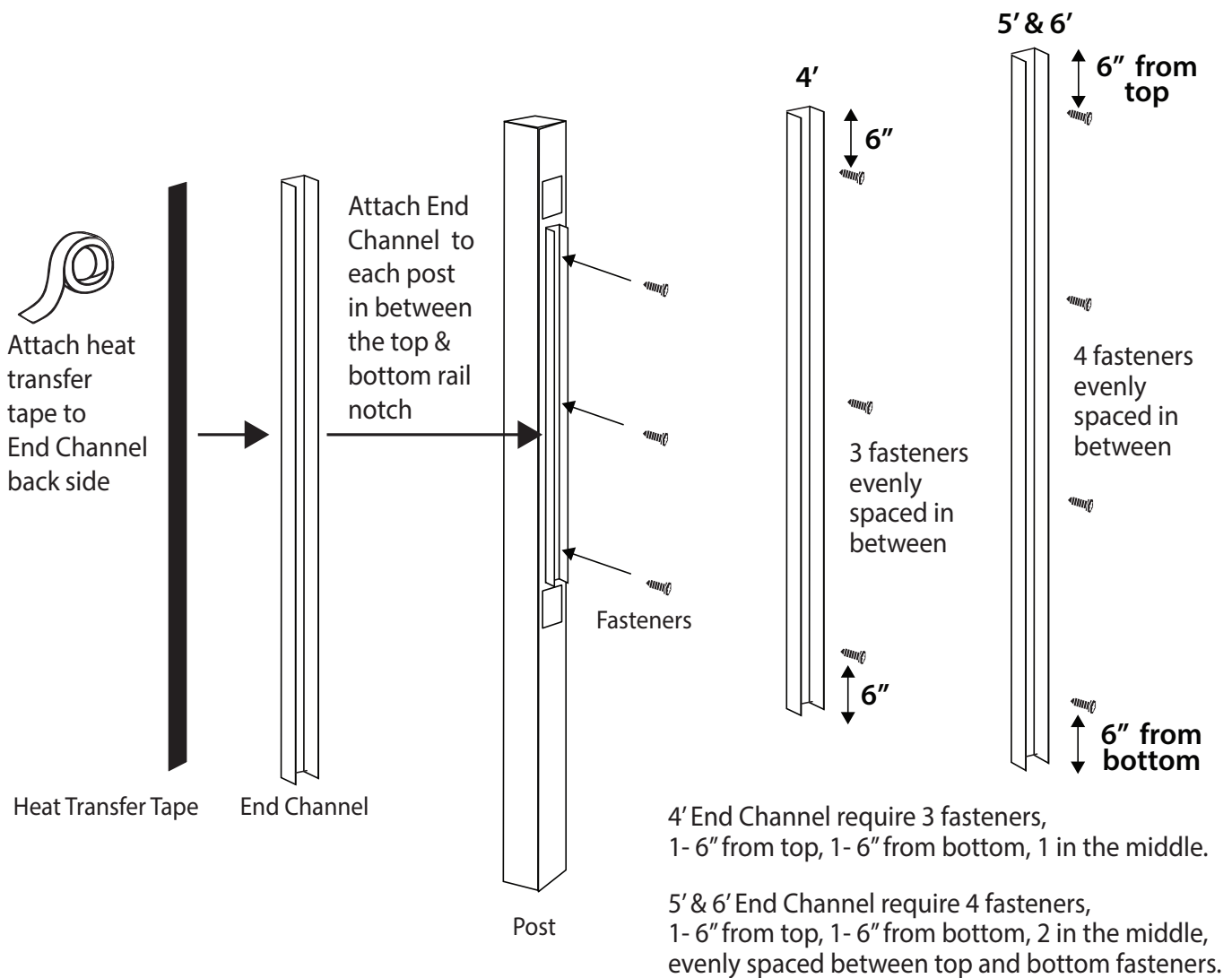


## STEP 7 Assembling Modern ALU Fence Panels

**Note:** Always begin installing fence panels **starting at** and working away from a corner post.

- A. Lay out material for each fence section; 2 end channels, required pickets, top rail.
- B. Each end channel requires a strip of heat-transfer-tape attached to back side of channel. Using a stainless steel fasteners, attach end channel to post. 4' tall require 3, 5' & 6' tall requires 4 fasteners each. Top and bottom fasteners attached 6" from top and bottom on 4' 5' 6' with remaining fasteners spaced evenly apart. See Fig. 7a, shows heat tape being attached and showing where end channel fastener locations.

**Fig. 7a - End Channel Installation**



C. Begin installing precut pickets. See Fig. 7b or 7c.

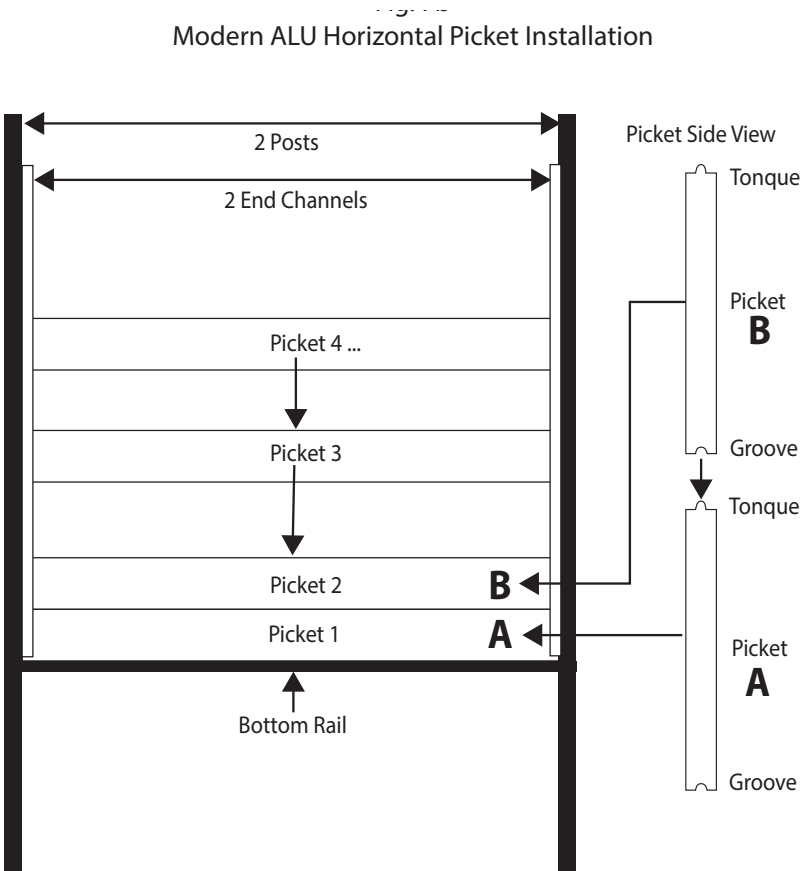
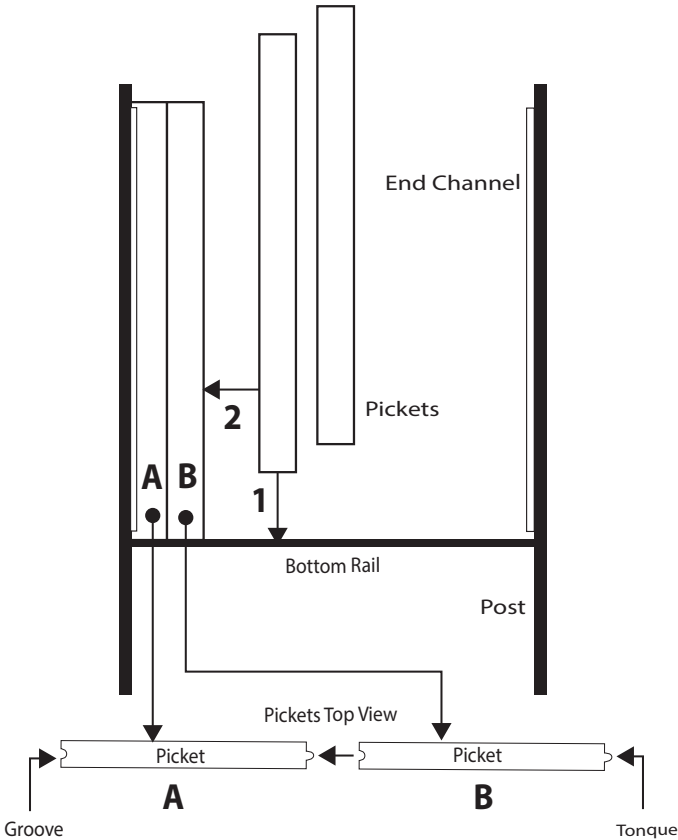


Fig. 7c  
Modern ALU Vertical Picket Installation





D. **IMPORTANT: For all Cedar, Rustic, and Weathered pickets, steel support reinforcement inserts need to be installed first into two pickets in each section. See Fig. 7d.**

E. After all pickets are securely installed. Install top rail by sliding top into final position. See Fig 7e.

F. Secure all top rails with fasteners inside the top of each post. See Fig. 7f.

Fig. 7d

Modern ALU Steel Insert Installation is required for Cedar, Rustic and Weathered pickets colors only

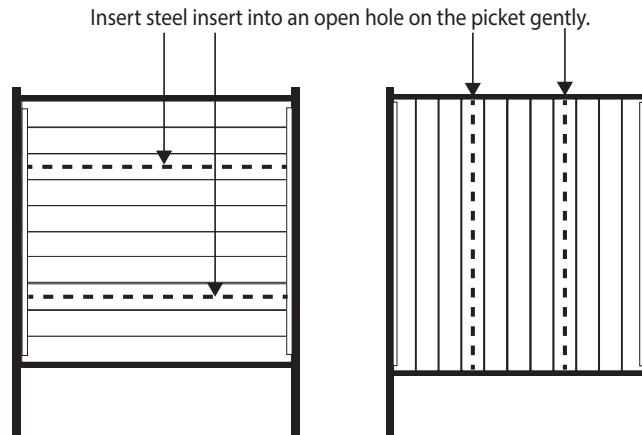


Fig. 7e

Modern ALU Top Rail Installation

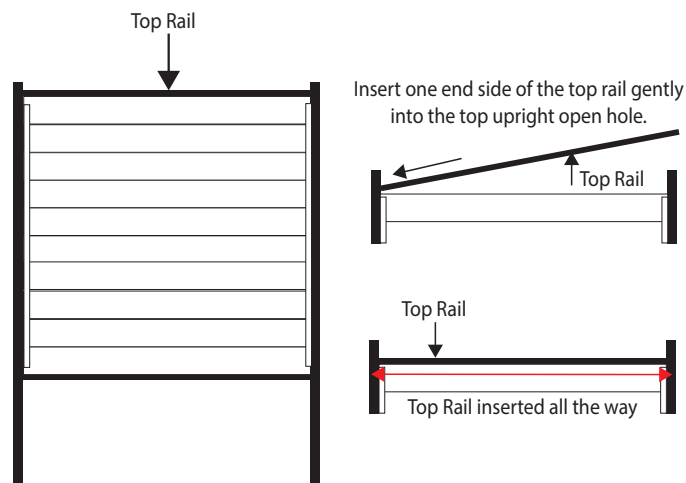
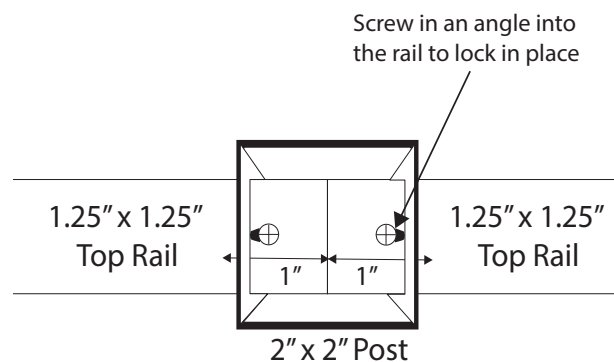


Fig. 7f

Modern ALU Line Post Installation



## STEP 8 Modern ALU Gate Kit Installation

Gate Post Spacing: All pre-assembled gate spacing for all 4' 5' & 6' tall is 45 ½" between posts to accept 44" wide pre-assemble gates.

- A. All pre-assembled gates have a finished width of 44."
- B. Determine which way gate is to swing.
- C. Install hinges to the gate at height that is not in line with any of the horizontal rails.
- D. Lay the gate down on a flat and level surface.
- E. Protect the finish of the gate with cardboard or tarp.
- F. Pre-drill all holes in gate upright where the hinges will be attached.
- G. Using screws (fasteners) provided, use a drill or screwdriver to tighten all fasteners.
- H. With two wooden blocks to rest the bottom of the gate on, place the gate into the entrance opening making sure that the gate top rail is even with panel top rails.
- I. Securely fasten gate to gate post.
- J. Remove wooden support blocks.
- K. Determine where latch is to be positioned and secure latch to gate.
- L. Install latch striker onto gate post.

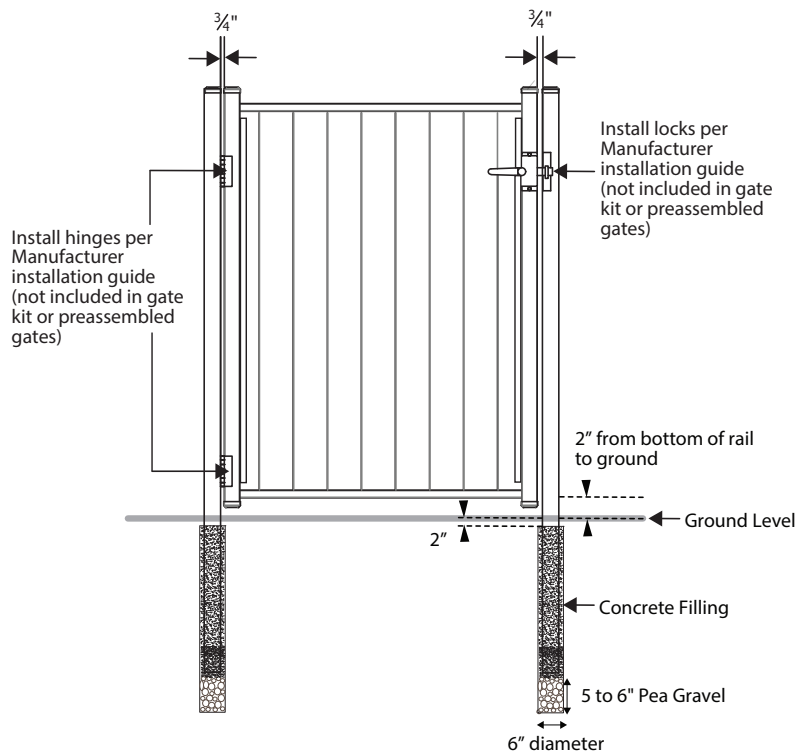
Follow the how to build instructions in pre-packaged gate kits.

Completed gates built with DuraMax Gate Kits install the same as preassembled gates above

Note: Gate kits include (2) 2" routed up-rights, (2) end channels, (2) 2" post caps, (4) 2" x 2" internal corner supports, assorted screws and fasteners. Top/bottom rails and pickets need to be ordered separately.

Fig. 8  
Modern ALU Gate Hardware

Gate Hardware needs to be ordered separately



## STEP 9 Modern ALU Gate Custom Installation

- A. Attached the two end channels to the uprights following the direction in Step 7. See Fig. 7a.
- B. Cut two rails  $\frac{1}{4}$ " shorter than the desired finished gate size. See Fig. 9a.
- C. On a flat nonabrasive surface insert a rail into the bottom routed holes of a the gate up-right. Make sure that rail is inserted all the way into the routed holes. See Fig. 9b.

Fig. 9a

### Modern ALU Custom Gate

Cut 2 rails,  $\frac{1}{4}$ " shorter than gate opening.

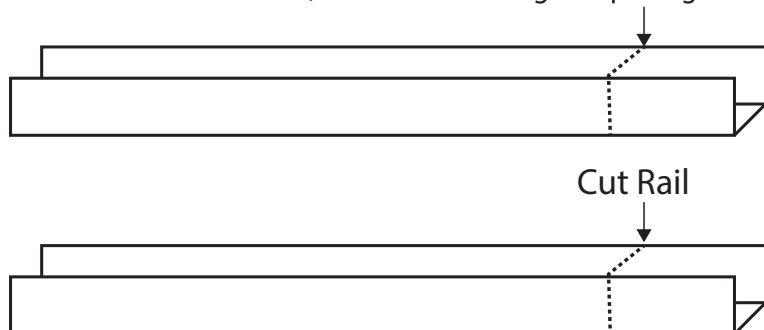
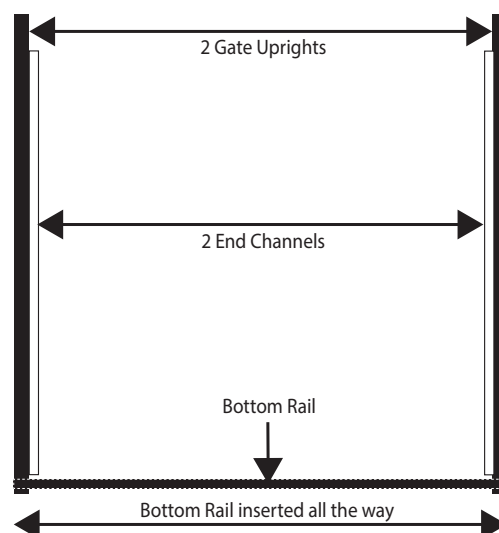
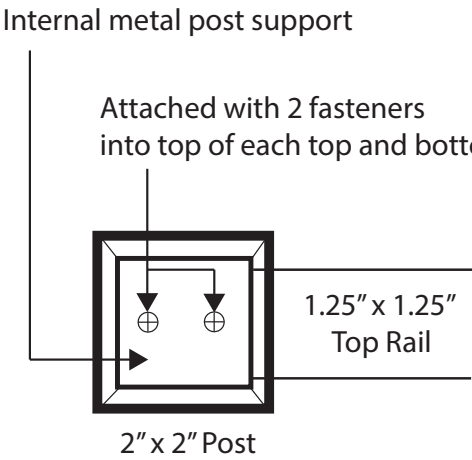


Fig. 9b  
Modern ALU Custom Gate



- D. Using two of the 2" x 2" internal corner supports, use provided fasteners and secure the corner supports to the bottom of rail on the inside of each up-right. Instructions are included in each gate kit package. See Fig. 9c.
- E. Install the pickets into the frame by inserting each picket completely into bottom rail and with the first picket being tight against the post up-right. Continue until all required pickets are inserted into gate frame, (note the last picket may need to be trimmed to fit). See Fig. 9d or Fig. 9e.
- F. Insert remaining rail into top gate up-right hole and then gently spread up-rights to allow the final rail to insert into opposite up-right hole. Push the gate up-right toward each other until rail is fully inserted into gate up-right holes. See Fig. 9f .
- G. Using the two remaining 2" x 2" internal corner supports, use provided fasteners and secure the corner supports to the top rail on the inside of each up-right. See Fig. 9c.
- H. Lay the assembled gate on a flat surface and using a carpenters square at a corner and secure the rails into the up-right by using 2-1/4x1 self tapping fasteners. Move to an opposite corner and using a carpenters square repeat the step as in #9. Continue with the two remaining gate corners until all corners are secure and tight. This procedure is only required on one (1) side of gate. See Fig. 9g.
- K. Follow installation instructions in step 8 to complete gate installation.

Fig. 9c  
Modern ALU Top Rail Gate Upright Support



Top View

Fig. 9e  
Modern ALU Gate Vertical Picket Installation

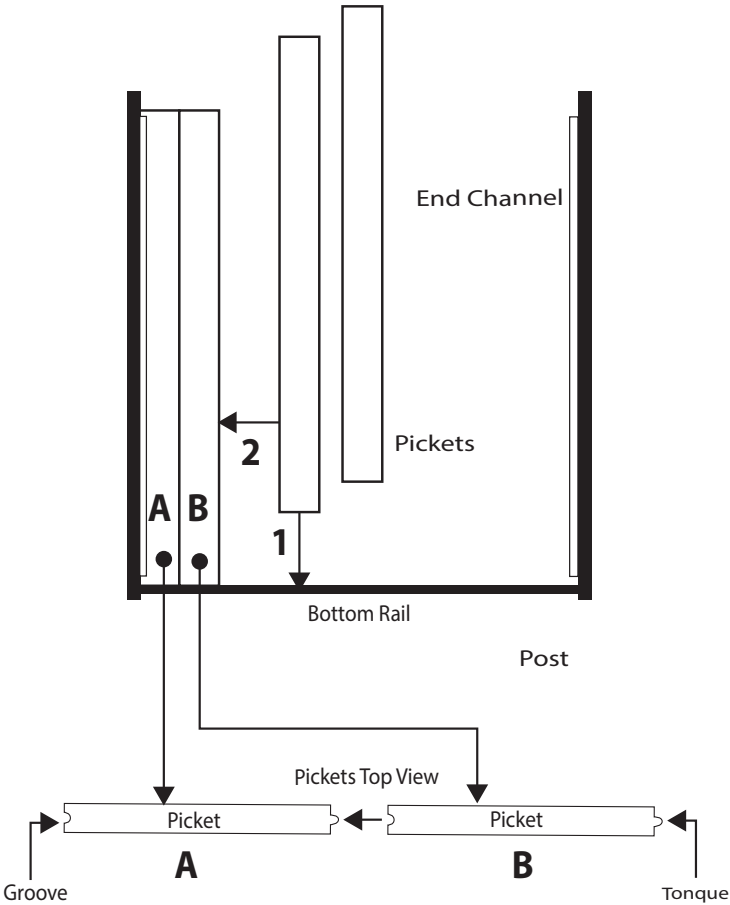


Fig. 9d  
Modern ALU Gate Horizontal Picket Installation

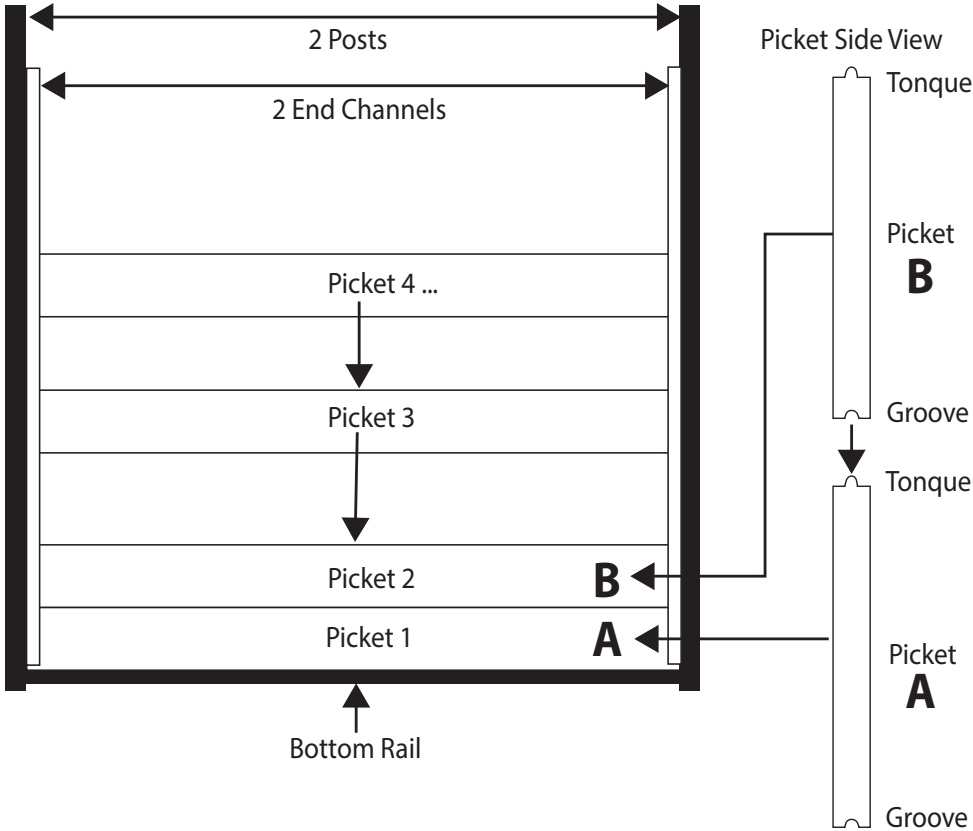


Fig. 9f  
Modern ALU Gate Top Rail Installation

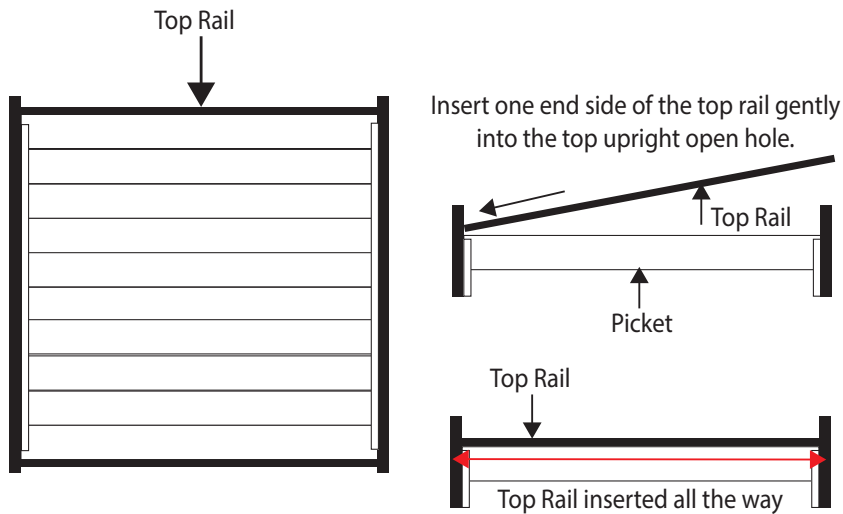
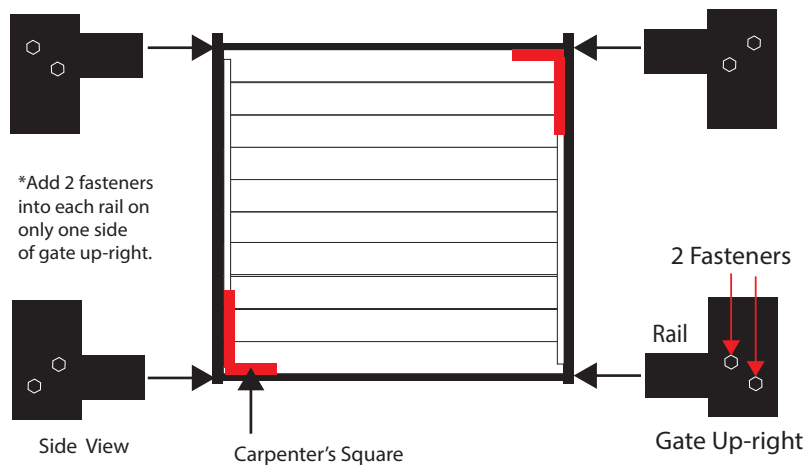


Fig. 9g  
Modern ALU Custom Gate Fasteners



## STEP 10 Installing Post Caps

With a rubber mallet lightly tap post caps onto each post. See Fig. 10.

Fig.10  
Modern ALU Post Cap Installation

