

Visit www.TimberTech.com/installation to view TimberTech installation videos.
Consult your local building codes for guard and handrail requirements.



IMPORTANT INFORMATION

- Please read all instructions completely before starting any part of the installation. Always make sure to visit www.TimberTech.com to ensure you are viewing the most current installation instructions, care and cleaning, technical information, and more.
- TimberTech Railing should be installed using the same good building principles used to install wood or composite railing and in accordance with the local building codes and the installation guidelines included below.
- AZEK Building Products LLC and its affiliates, successors, and assignees, accepts no liability or responsibility for the improper installation of this product.
- TimberTech Rail may not be suitable for every application, and it is the sole responsibility of the installer to be sure that Reliance Rail is fit for the intended use. Since all installations are unique, it is also the installer's responsibility to determine specific requirements in regard to each rail application.
- TimberTech Railing recommends that all applications be reviewed by a licensed architect, engineer, or local building official before installation. If you have any questions or need further assistance, please call TimberTech Customer Service at 877-275-2935, or visit our website at www.TimberTech.com.
- TimberTech Railing is tested as a whole system and should be used that way. It is not intended to be used in conjunction with other railing systems or fasteners.
- The following Installation Guidelines are applicable for installation of Reliance Rail Gate Kits only.
- **IMPORTANT:** Make sure the DRIVE TOOL/DRILL is configured or set to use the SCREW setting when driving and/or tightening all FASTENERS. It is very important not to overdrive fasteners. The use of impact drivers can increase the risk of overdriving fasteners.
- **SAFETY:** Always wear protective equipment, such as gloves and safety glasses, when working with tools and cutting materials.
- Failure to install this product in accordance with applicable building codes and TimberTech's written Reliance Rail Install Guide may lead to personal injury, affect rail system performance and void the product warranty.
- The buildup or generation of static electricity is a naturally occurring phenomenon in many plastic based products such as carpeting, upholstery, and clothing, and can occur on alternative decking under certain environmental conditions. This static electricity can discharge once contact is made with hardware, railing, or other conductors of electricity
- **CUTTING:** If the rail needs to be cut to size, ensure accurate measurements. TimberTech is not responsible for any mistakes or damages caused by cutting.

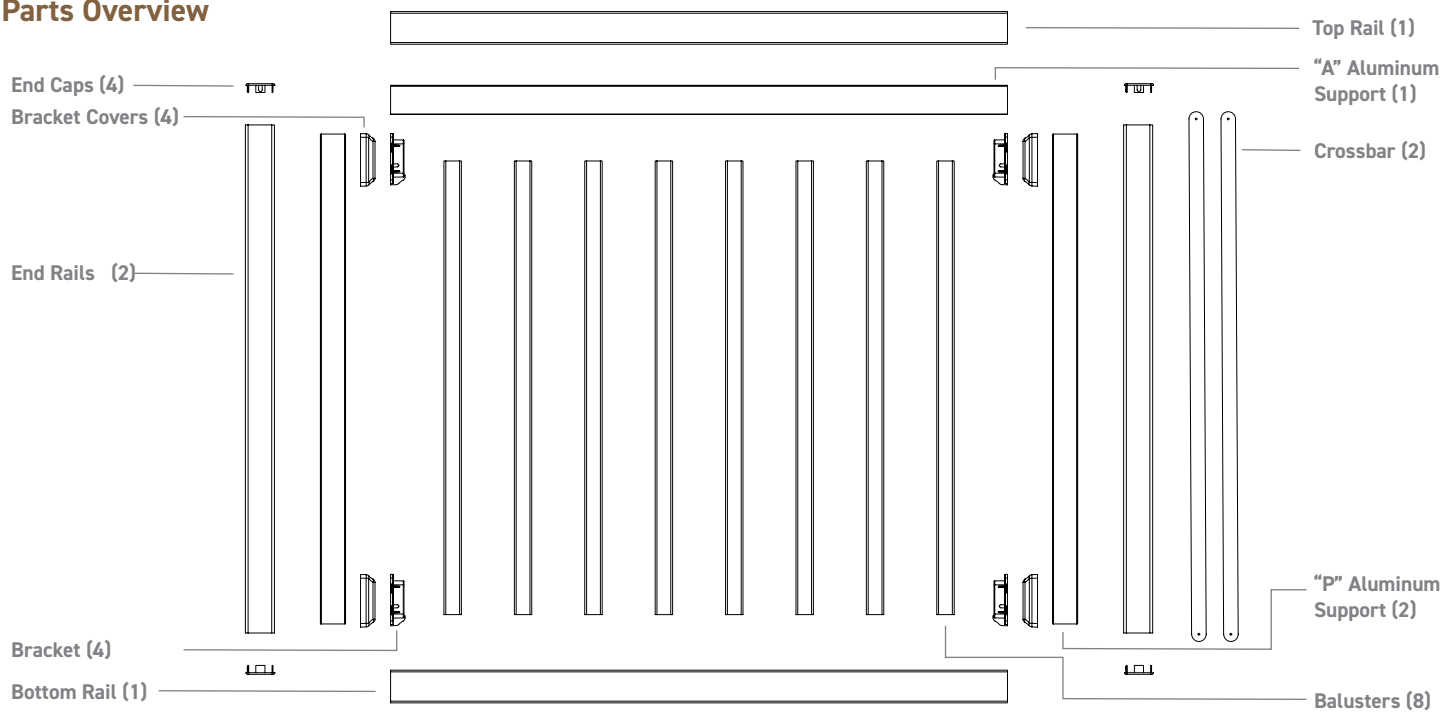
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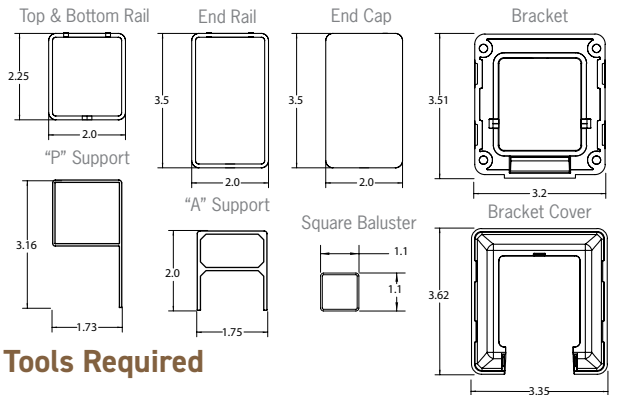
IMPORTANT INFORMATION:

- The Reliance Rail Gate Kit is designed to work with Reliance Rail®
- The maximum width of a gate built with a Gate Kit is 48".
- Gates should always swing towards the interior of the deck.
- Be sure to install using a hinge and latch (sold separately) to a post that is plumb; this is critical for the gate to operate properly.
- Installation is easiest with two people.
- Gate should be installed with provided Reliance Rail balusters only.

Parts Overview



Component Dimensions



Tools Required

- Pencil
- Tape Measure
- Level
- Square
- Power Drill
(with 6" Minimum Driver Extension)
- 5/32" Drill Bit (6" long or hex drive)
- Chop Saw (w/Carbide tipped fine finish blade)
- Soft Clamps

Components Needed For Installing
One Reliance Rail Gate Kit

Components included in
Reliance Gate Kits*

*Note Reliance Rail
Hinge & Latch Sold
Separately

- 2 - Contour Bottom Rail 42 1/2"
- 2 - Core Rail 41"
- 8 - Square vinyl Balusters
- 1 - "A" Stiffener .08 wall with gussets 42 1/2"
- 2 - P Aluminum 39 3/4"
- 2 - Contour level bracket set
- 4 - Gate frame end caps
- 2 - Gate cross brace 36"
- 2 - M3 hex drive binding barrel and screw
- 18 - #10 x 1.50" Tek screws black for gates
- 8 - #10 x 1.00" T25 non painted screw kit



IMPORTANT NOTE:

- Prior to construction, check with your local regulatory agency for special code requirements in your area.
- Common railing height is 36" or 42".
- TimberTech Reliance Rail Gate Kit is designed not to exceed 48" gap between posts.
- For all other applications, consult a design professional or a TimberTech Railing representative for more information.
- Posts must be installed plumb, level, and in line with each other.
- Read instructions completely to get an understanding of how the product goes together and how each piece affects the other.
- Not compatible with glass infill panels.
- 4x4 lumber posts or TimberTech Secure Mount Posts should be installed plumb.
- Cut slowly, using a fine tooth saw blade to avoid chipping.

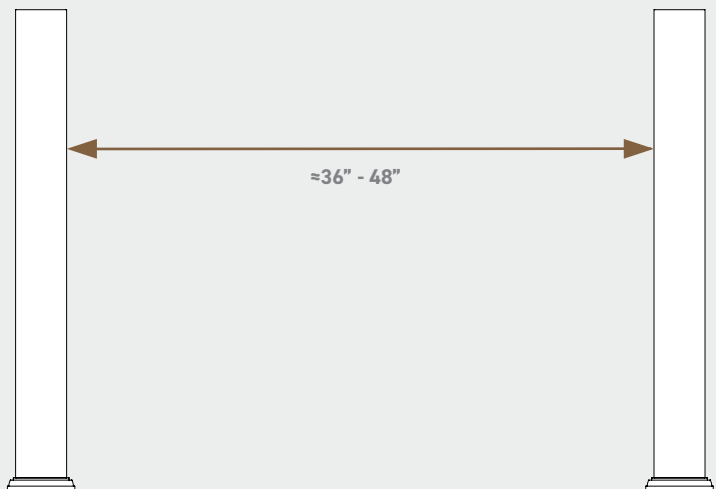


CONSULT YOUR LOCAL BUILDING CODES FOR GATE REQUIREMENTS

1

Prepare Posts & Gate Sizing

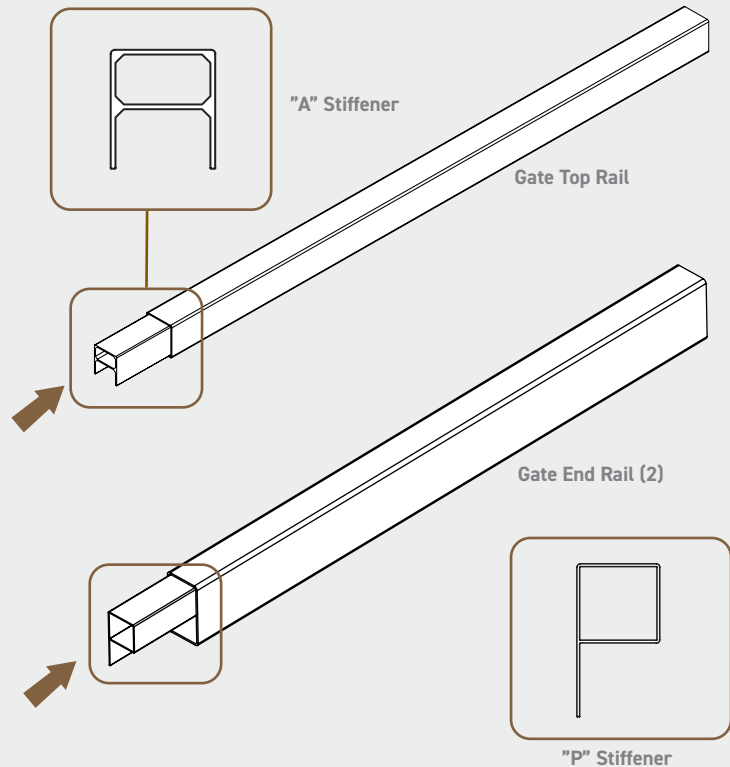
- If using post skirts, slide skirt over wood post first, then place sleeve over wood post. Insert sleeve into skirt at the base of the post
- Shim the post sleeve to the wood post. Ensure the posts and sleeves are square and plumb
- Measure space between post sleeves to detect misalignment and correct if needed. Use level, measure twice, and record final distance. Trim top & bottom rails down to allow sufficient space for hinge, latch, and side rails; ensure baluster holes are aligned and centered within the rails.
- Gate Kit comes ready for 42" height - if 36" height is desired, cut balusters down to 32-1/8"



2

INSERT AND ORIENT STIFFENERS

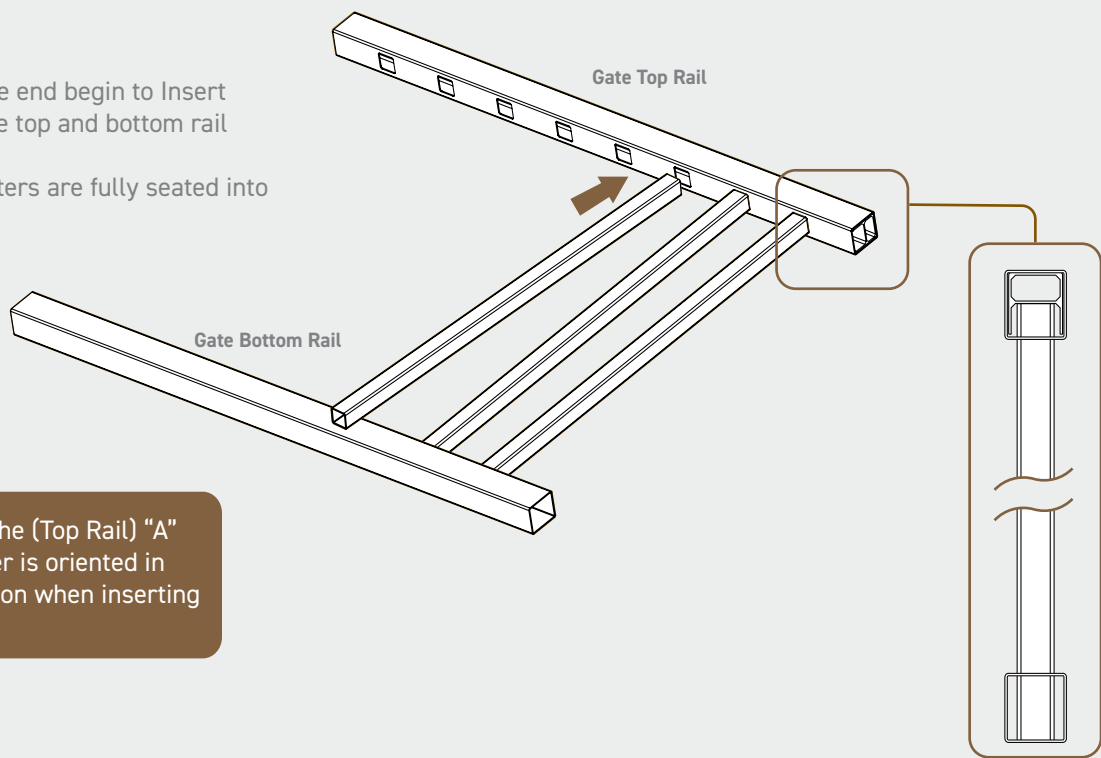
- Place rails, balusters, brackets and fasteners onto a flat work surface
- Insert the stiffeners making sure they are inserted and oriented properly
- Gate top rail uses the "A" stiffener
- Gate end rails use the "P" Stiffeners



3

INSTALLING BALUSTERS

- Starting from one end begin to Insert balusters into the top and bottom rail
- Make sure balusters are fully seated into the rails

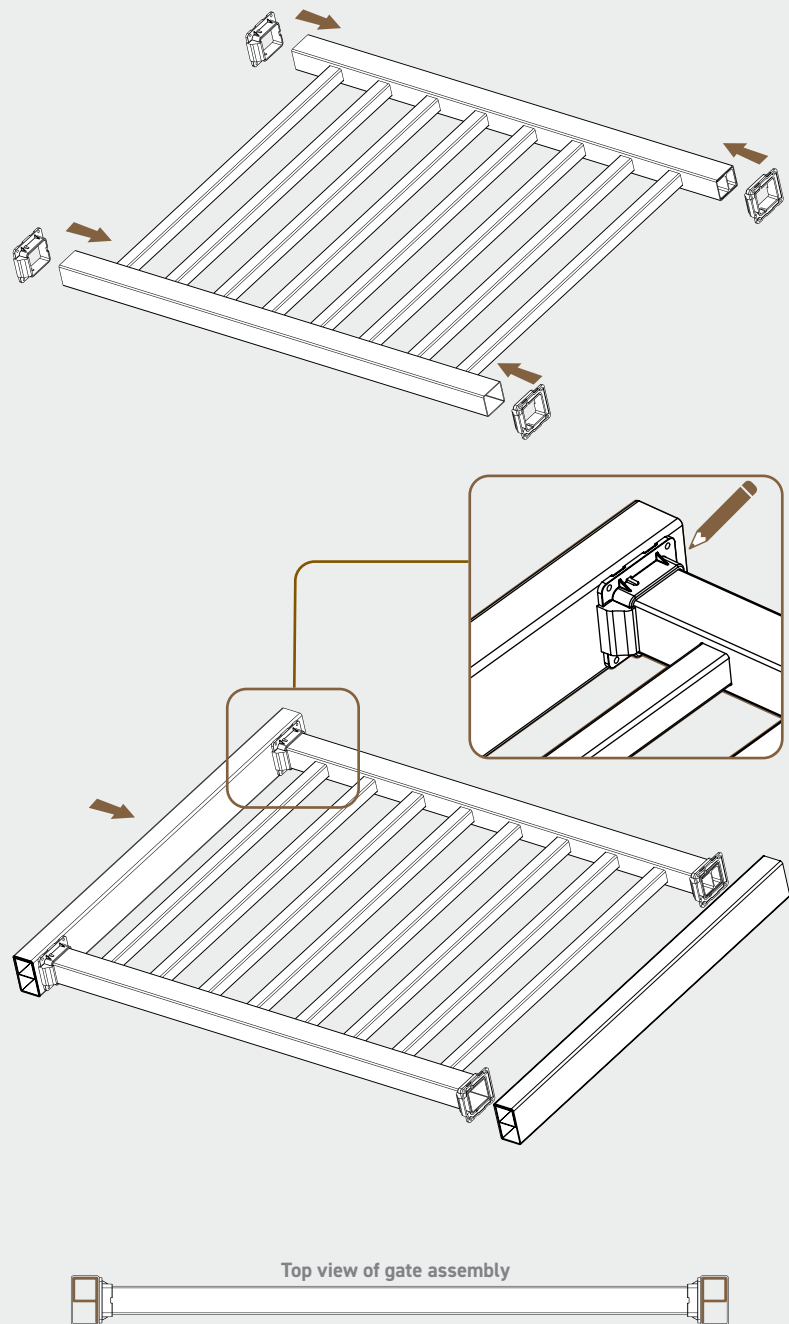
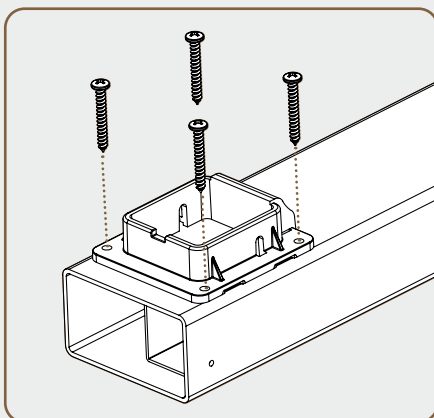
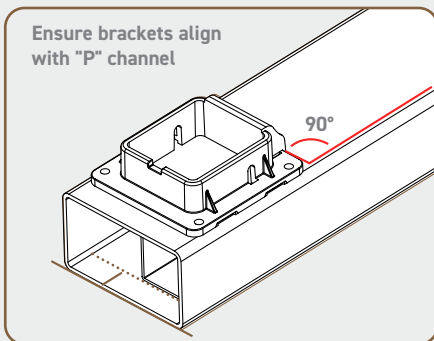


Note: Make sure the (Top Rail) "A" aluminum stiffener is oriented in the correct direction when inserting balusters.

4

INSTALL RAIL BRACKETS

- Making sure rail brackets are oriented correctly slide rail brackets over the end of both the top and bottom rails
- Make sure the aluminum "P" stiffeners are oriented correctly so the fasteners that attach the brackets are going through the "P" stiffener when assembled
- Mark the location of the brackets on the end rails of the gate
- Using a square or tape measure ensure the aluminum "P" channel is in the proper location within the end rail so that the rail bracket screws will insert through the "P" channel on both the top and bottom brackets.
- Pre-drill through the bracket, end rail, and "P" channel using a 5/32" drill bit
- Install brackets using (4) 1 5/8" screws for each bracket, ensuring correct orientation



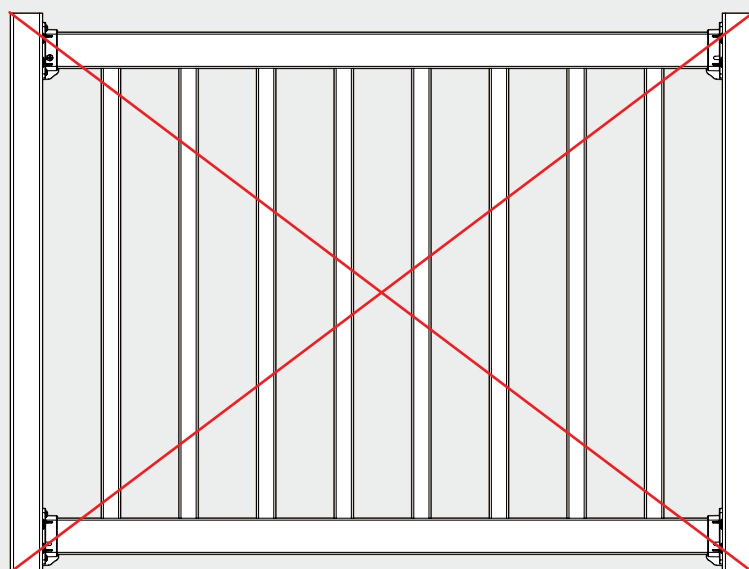
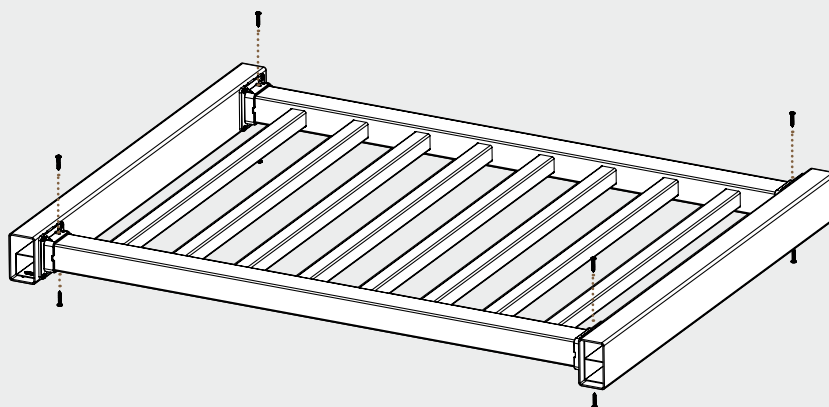
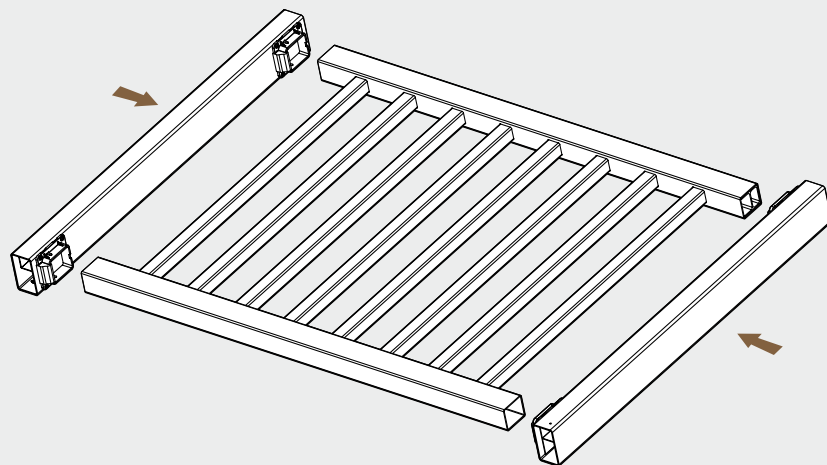
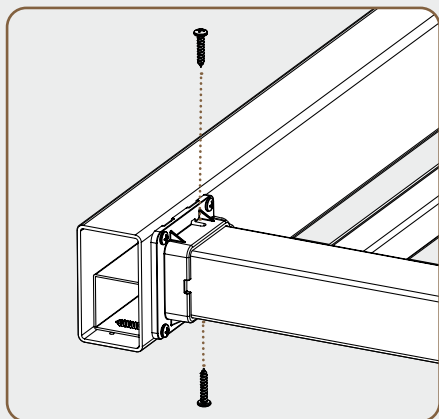
Important: Orient the "P" aluminum stiffener so that the longest leg of the "P" is facing inward towards the brackets



5

ATTACH GATE ASSEMBLY TO GATE ENDS

- With brackets attached slide the gate assembly onto the gate ends
- Pre-drill with a 5/32" drill bit through the rail bracket and into the gate rails
- Attach the rail brackets to the top and bottom rails using 1" screws on both sides of each bracket
- Check assembled gate frame for square by measuring from corner to corner each direction.
- Adjust frame by gentle tapping in desired direction to bring gate frame to square if necessary



Note: Check for square by measuring from corner to corner diagonally across gate

6

INSTALL GATE CROSS BRACE

- Lay 2-piece cross brace across the gate frame from top (hinge side) to opposite lower corner (latch side)
- Mark the end rails where the aluminum "P" stiffener is located so that the screw for the cross brace will penetrate through the upper portion of "P" stiffener on each end
- Place a pencil mark as the overlap of the 2-piece cross brace, clamp together and prepare to drill two holes
- Drill through 2-piece cross brace in 2 locations using a 5/32" drill bit
- Insert barrel screws through each hole location in the cross brace and tighten with a X sized Allen wrench
- Attach the assembled cross brace to the gate using the black coated 1.5" self drilling screws

Note: Make sure the cross brace is attached through the top section of the "P" stiffener as shown in Fig. 7-1

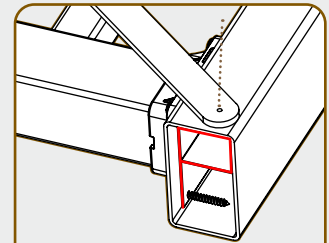
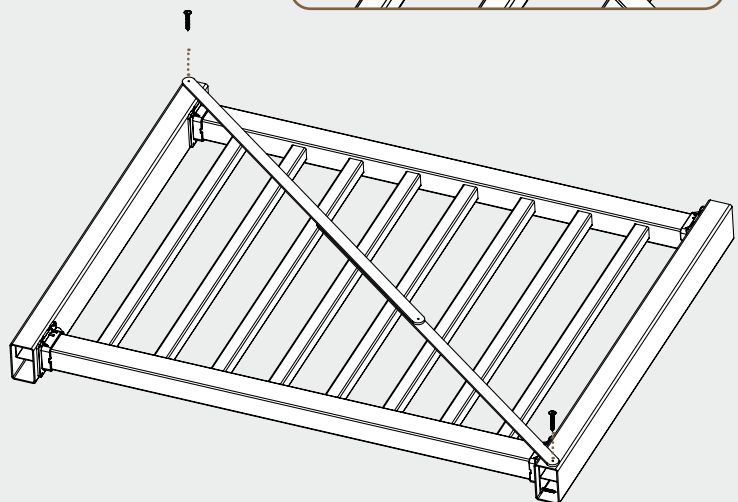
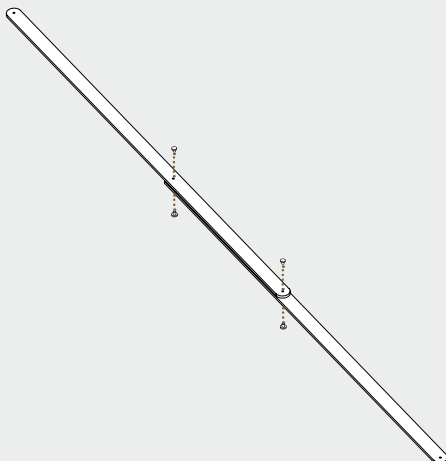
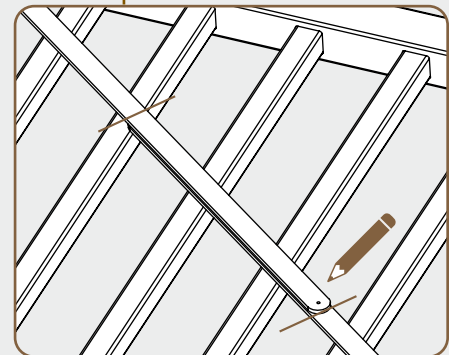
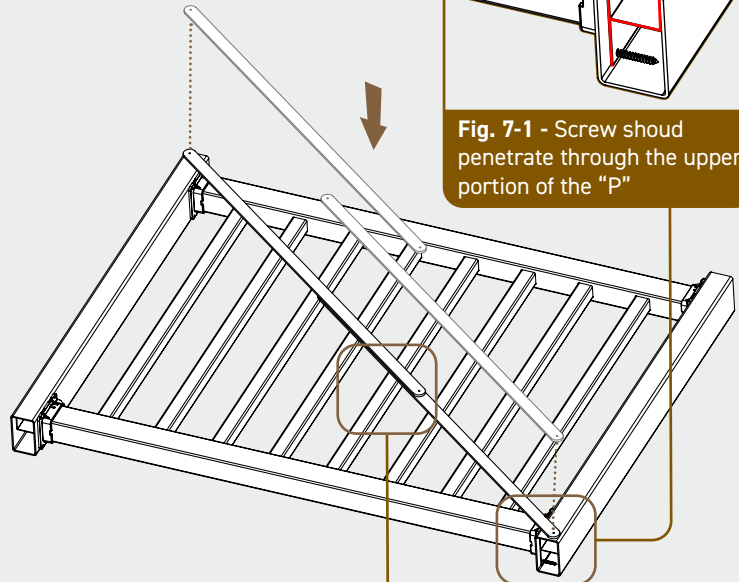


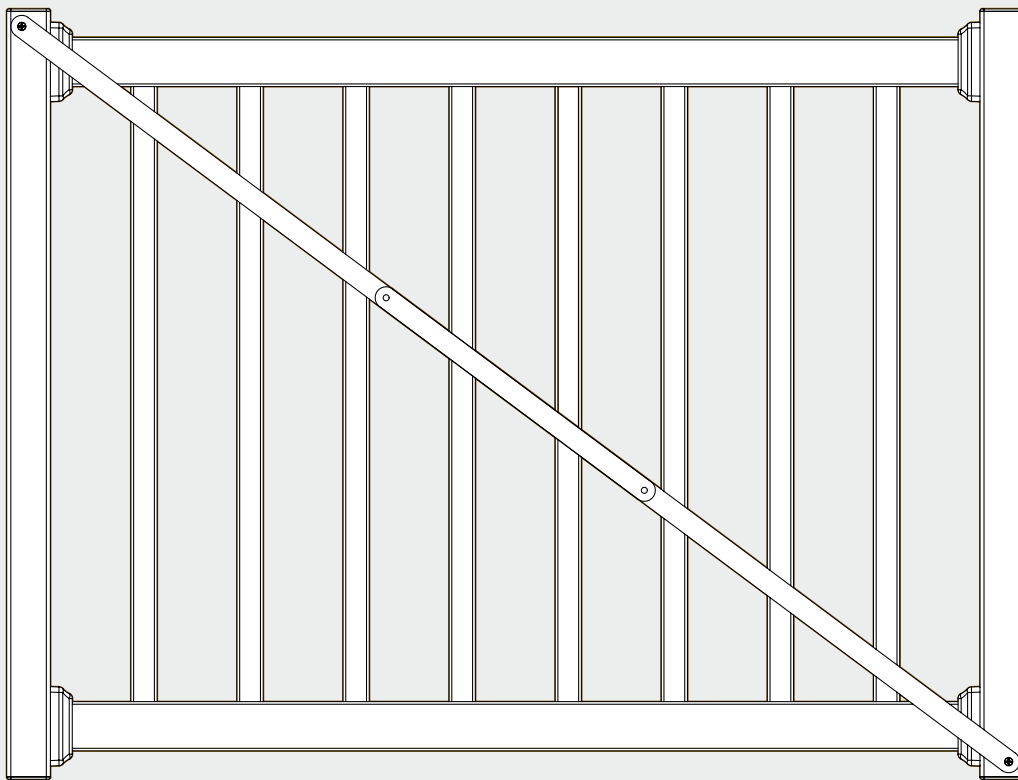
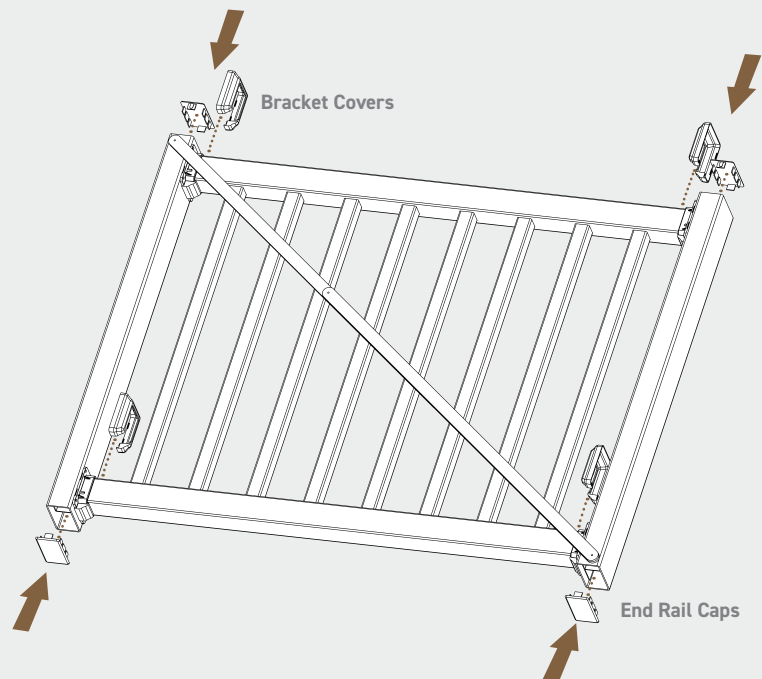
Fig. 7-1 - Screw should penetrate through the upper portion of the "P"



7

INSTALL BRACKET COVERS AND CAPS

- Attach the bracket covers on all four brackets
- Attach the gate rail end caps into the ends of the end rails



8

ATTACH GATE TO POST

- Follow instructions on selected hinge and latch kit to install constructed gate onto posts
- Ensure gate is level and secured to post before use
- Gate should be installed to swing onto the deck surface side
- Test gate and hinge / latch functionality to ensure it meets expectations and all applicable code or safety regulations prior to use