

White Rhino Rail

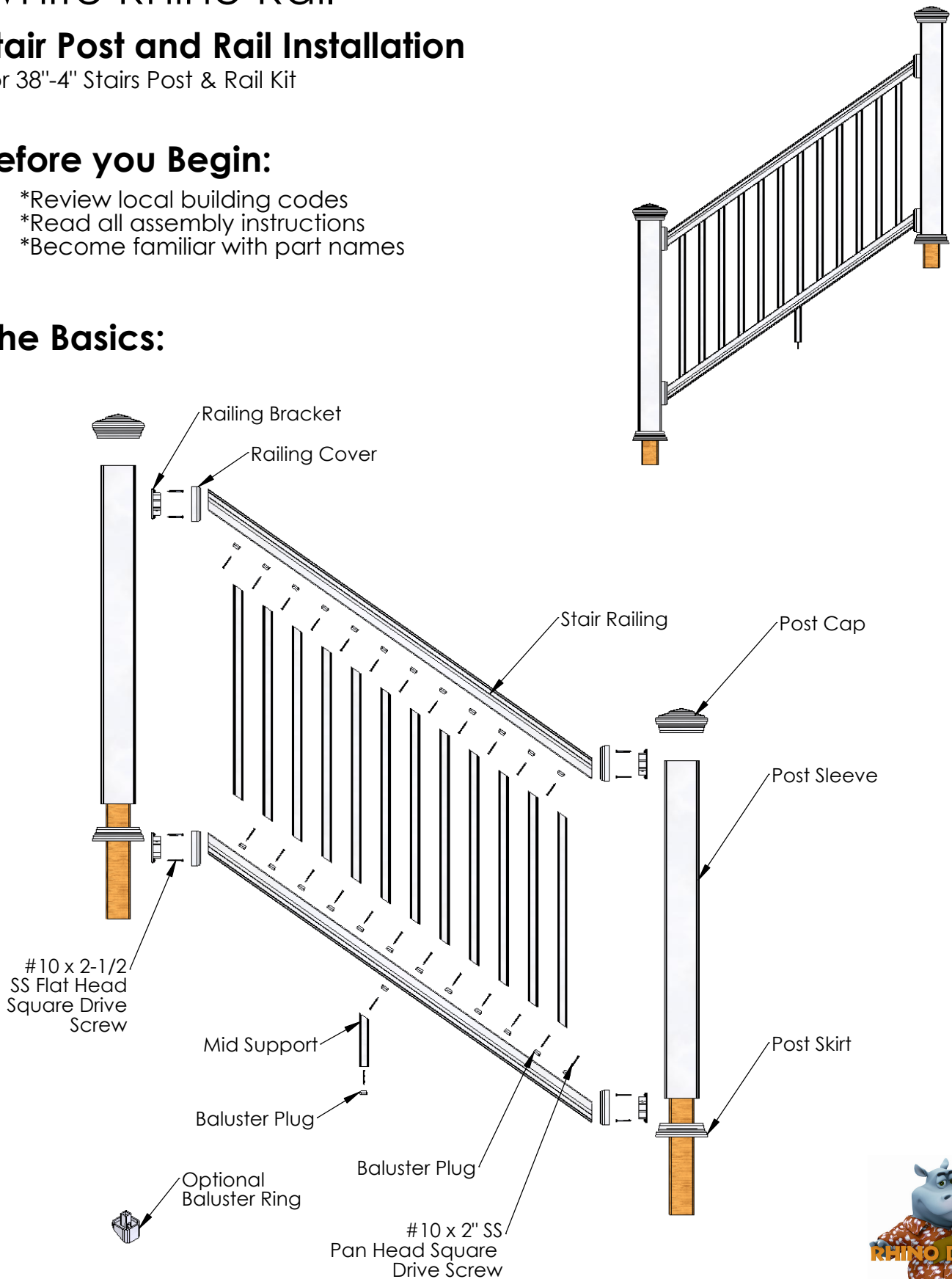
Stair Post and Rail Installation

For 38"-4" Stairs Post & Rail Kit

Before you Begin:

- *Review local building codes
- *Read all assembly instructions
- *Become familiar with part names

The Basics:

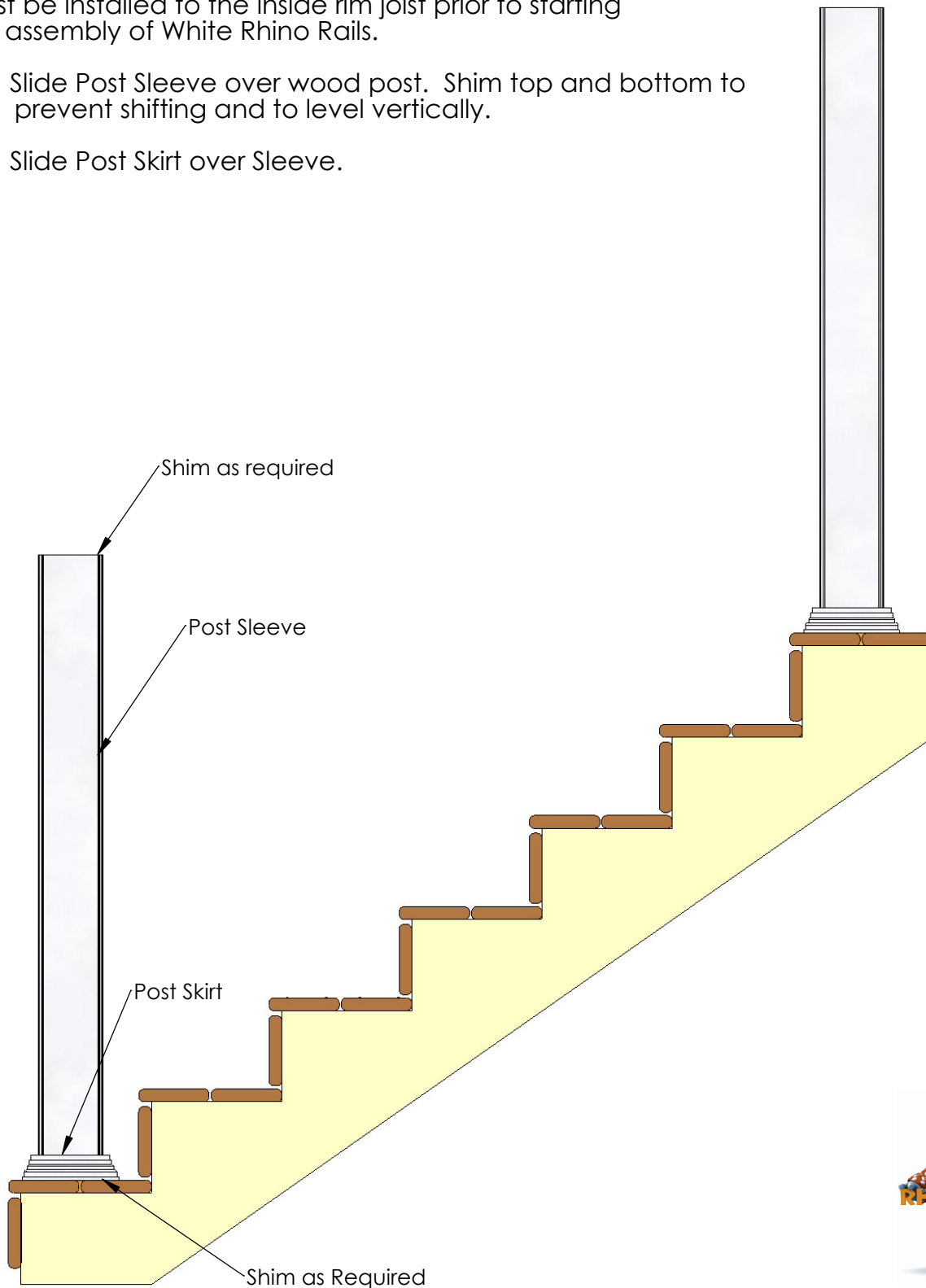


Step 1 - Stair Posts

As with each supporting element of your deck, stair railing posts should be designed to meet local building codes. The instructions below are for 42" rails. In your railing design, keep in mind that the railing system fits over 4"x4" wood posts and rails are 72" prior to cut.

For best results, use cedar rather than treated pine. Wood 4"x4" Posts must be installed to the inside rim joist prior to starting the assembly of White Rhino Rails.

- 1a. Slide Post Sleeve over wood post. Shim top and bottom to prevent shifting and to level vertically.
- 1b. Slide Post Skirt over Sleeve.



Step 2 - Trimming Rail Length

Rails will need to be cut to length on each end at the angle of your stairs. When cutting the overall length of the Stair Rails, consider the position of the pre-drilled Baluster Plug holes. The Top Rail and Lower Rail baluster holes need to be in alignment.*

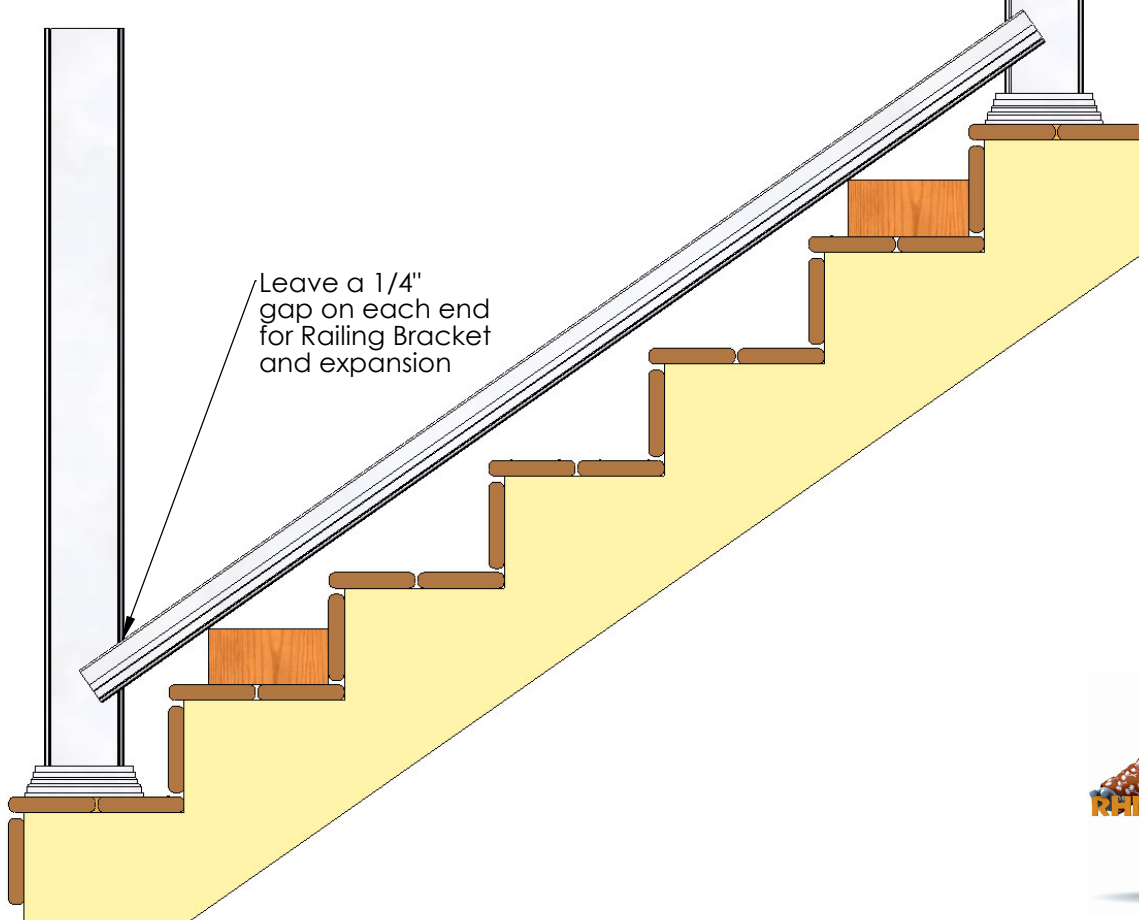
The spacing between the Post Sleeve and adjacent Baluster cannot exceed 4" and cannot be less than 2".

To allow space for the railing bracket and expansion, you will need to cut the rails so that there's a 1/4" gap (between Rail and Post Sleeve) on each end.

Carpenter's Trick:

In determining the proper length and angle for your railing cuts, it may be helpful to set the rail on 2 equal size blocks on the stair risers and mark a line where they intersect the Post Sleeve. Subtract an additional 1/4" from each end to allow for the Railing Bracket and expansion.

For best result, cut rails with a 60 teeth min carbide tip blade.

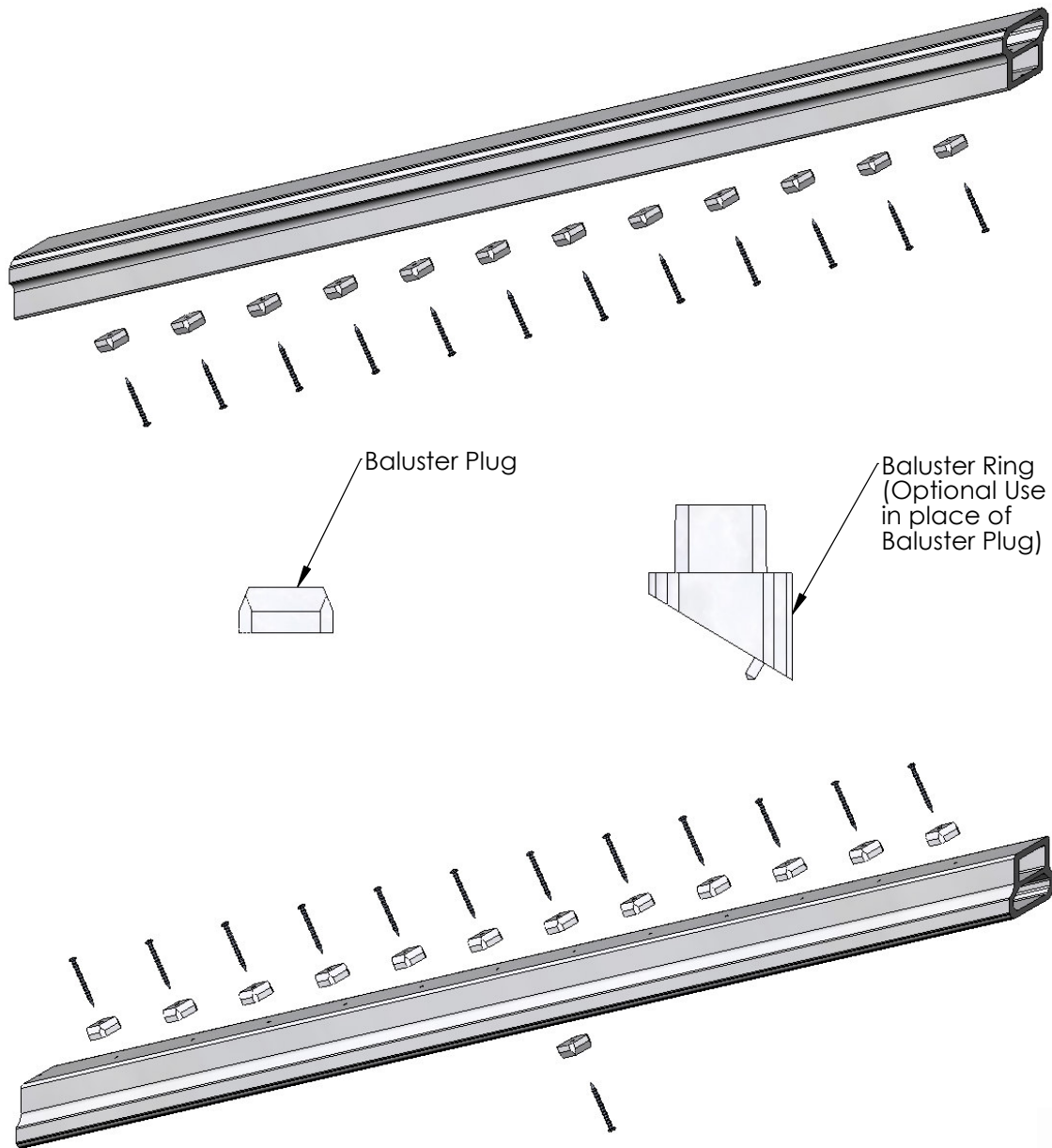


Step 3 - Baluster Plugs and Rings

Install baluster plugs into top rail and bottom rail using pre-drilled holes and #10 x 2" SS Pan Head Square Drive Screws.

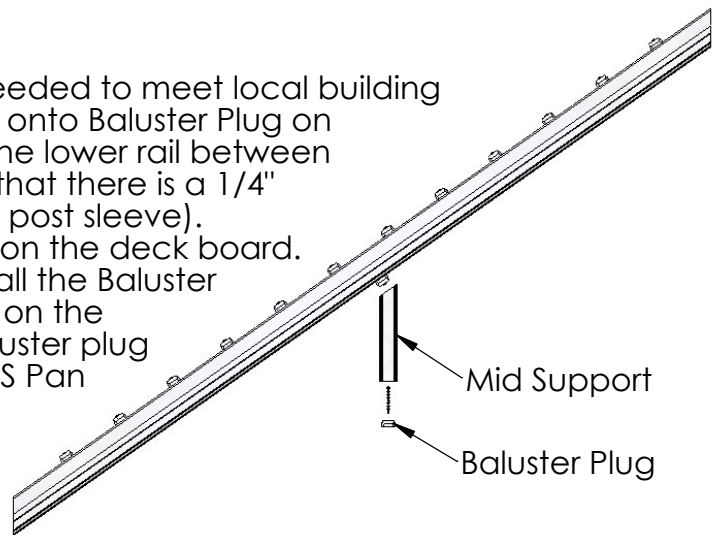
Baluster Plugs accommodate a variety of angles and can be modified by filing with a standard wood file if required.

The Baluster Rings can be used in place of the Baluster Plugs.

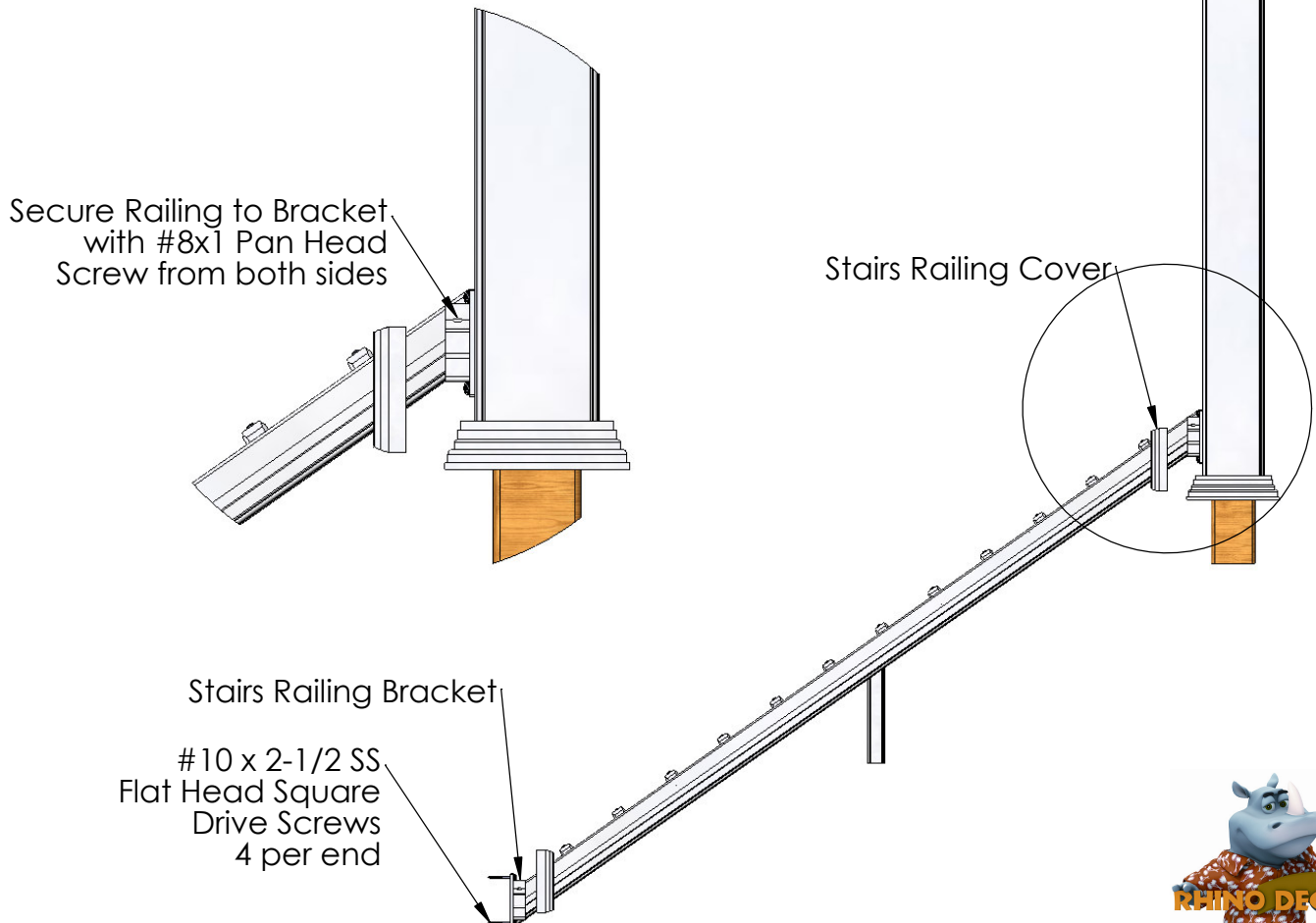


Step 4 - Install Lower Rail

- 4a. Cut Baluster Mid Support as needed to meet local building codes. Place the Mid Support onto Baluster Plug on bottom of Lower Rail. Center the lower rail between post sleeves (keeping in mind that there is a 1/4" spacing on each end of rail to post sleeve). Mark the Mid Support position on the deck board. Set aside the Lower Rail to install the Baluster Plug. Center the Baluster Plug on the marked position and install Baluster plug to deck board with a #10 x 2 SS Pan Head Screw.

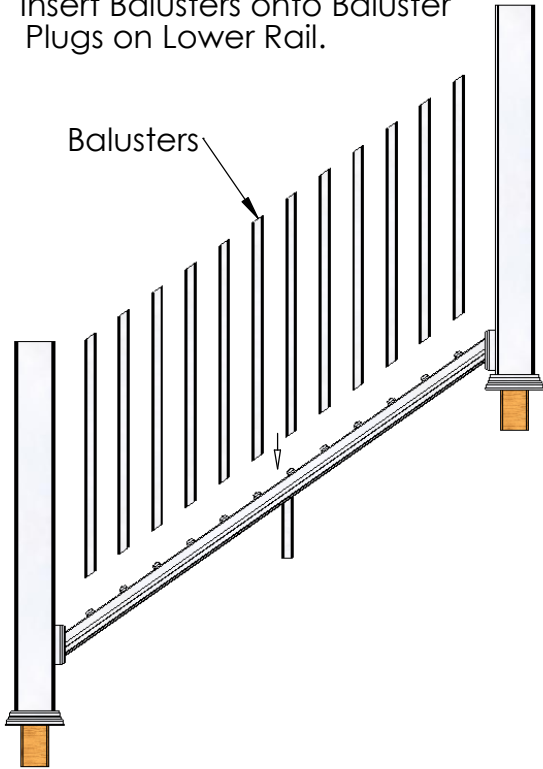


- 4b. Slide Stair Railing Cover onto Lower Rail. Place Lower Railing between Post Sleeves. Position Stairs Railing Bracket at each end and center on Post Sleeve. Pre-drill 1/8" pilot holes through Post Sleeve using holes in Railing Bracket as a guide. Mount with #10 x 2-1/2 SS Flat Head Square Drive. Attach Lower Railing to Railing Bracket with #8 x 1" SS Pan Head Screw through slotted opening in Railing Bracket.

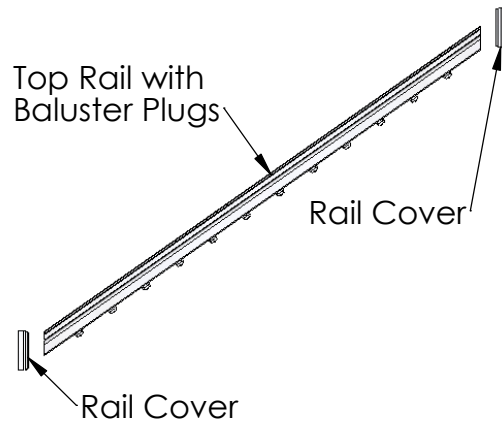


Step 5 - Complete Railing

5a. Insert Balusters onto Baluster Plugs on Lower Rail.

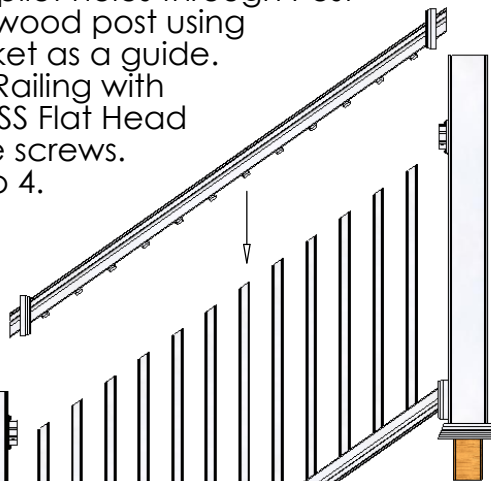


5b. Slide Railing Covers onto Top Rail (1 on each end).

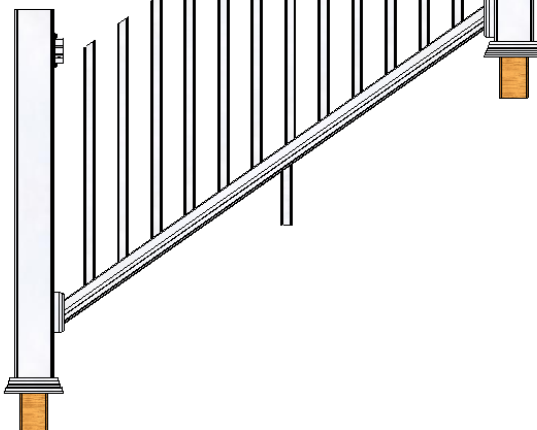


5c. Place Top Rail onto Balusters and seat firmly.

5d. Slide Railing Brackets onto Top Railing. Center Top Railing on Post Sleeves. Pre-drill 1/8" pilot holes through Post Sleeve and wood post using Railing Bracket as a guide. Attach Top Railing with #10 x 2-1/2" SS Flat Head Square Drive screws. Refer to Step 4.



5e. Snap Railing Covers onto Railing Brackets.



5f. Finish installation by placing Post Caps on Post Sleeves. Apply PVC glue (not included) under Post Caps if desired.

