

# FiberThane Installation Guide



100  
over  
spindle  
options

*the* Best *reasons to choose*  
FiberThane®  
*Balustrade*

*The entire FiberThane system was designed from the ground up, utilizing state-of-the-art materials for each component. Constructed from pultruded fiberglass, the rails and newel posts are made with some of the strongest and most durable construction materials available. Our balusters are made out of a structural aluminum alloy surrounded by molded polyurethane, giving you the strength of structural metal, and the architectural design and crisp detail of urethane.*

WHY CHOOSE THE FIBERTHANE® BALUSTRADE SYSTEM:

- Fiberglass top and bottom rails are more durable than any other material in the market.
- Is light-weight (between 15lbs - 22lbs per foot), making it perfect for every application.
- Can span 16' lengths while still passing construction codes.
- Rails are sold in one-foot increments. This means no wasted rail.
- Patent Pending 'Quick-Install' brackets are concealed and provide a completely finished look.
- The 'Quick-Install' brackets allow for quicker installation than traditional methods.
- Over 100 different baluster designs – balusters available with either round or square blocks.
- Easiest stair installation you have ever seen. Ask us, we will explain.
- Maintenance free. Impervious to weather, moisture, and insects. Will not crack, chip, or deteriorate.
- Lifetime warranty.
- All spindles, rails, and newels are 100% unique designs.
- Pre-drilled holes or even full length pre-assembled sections are available.
- Available to ship within 72 hours. Need it faster? Tell us, and we will ship tomorrow!
- More cost-effective than Urethane or FRP systems.



# FIBERTHANE BALUSTRADE

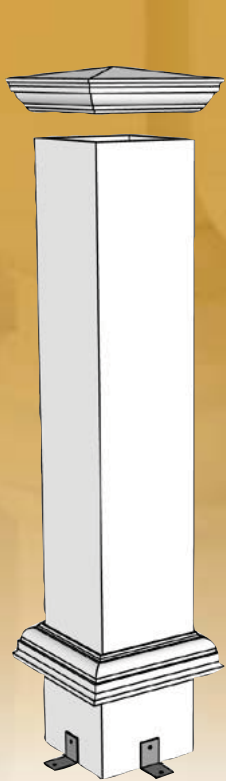


Figure 1

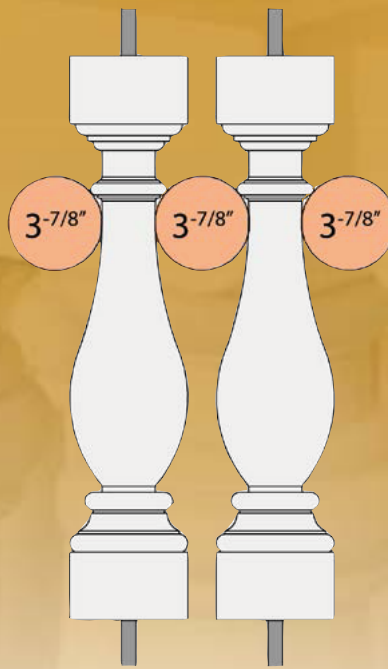


Figure 2

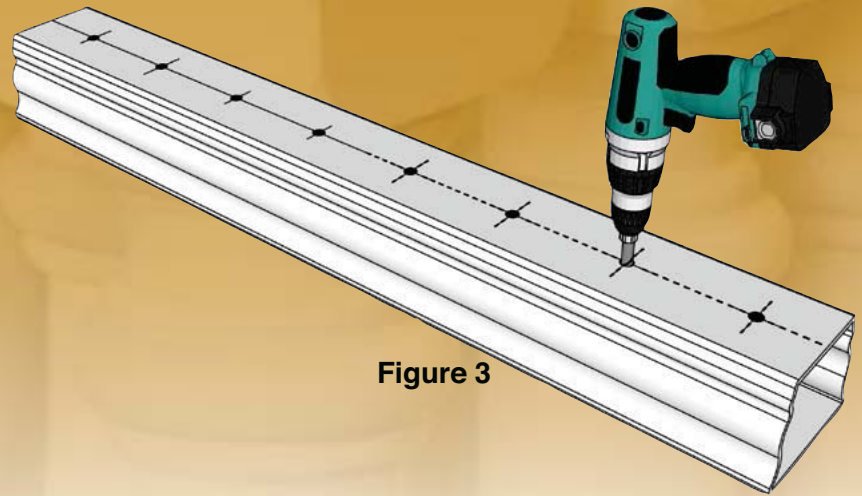


Figure 3

## *Balustrade Installation Instructions*

### 1. Installing Newel Posts (Figure 1)

- Use the installation kit or appropriate installation hardware.
- Slide the Trim Collar down to cover up the hardware and glue the collar in place.
- Glue the Post Cap in place with PL Premium.

### 2. Rail Lengths Needed

- Measure the distance for each section of balustrade you need.
- Cut your top and bottom rails to the lengths that you measured for each section. Cut rails  $\frac{1}{4}$ " shorter than needed if using the Quick-Install installation brackets. The Rail Installation Brackets will make up for this  $\frac{1}{4}$ ".

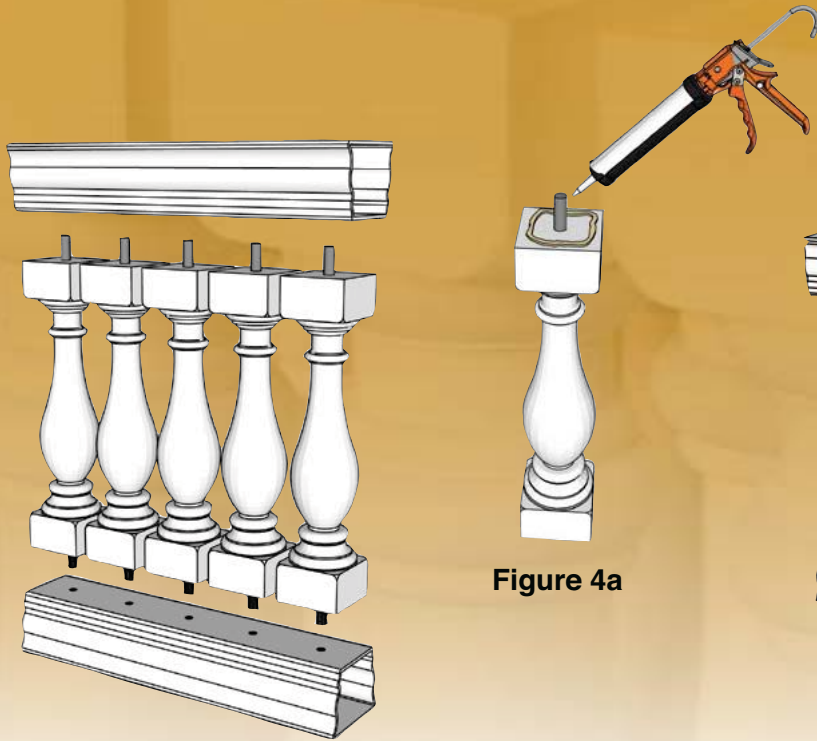
### 3. Determine How Many Spindles You Need for Each Section (Figure 2)

- Divide each section length by the spindle's 'Recommended On-Center-Spacing.' This is the maximum spacing to pass the nation-wide 4" sphere code.
- Round up to the nearest full number. This is how many spindles you are going to use.

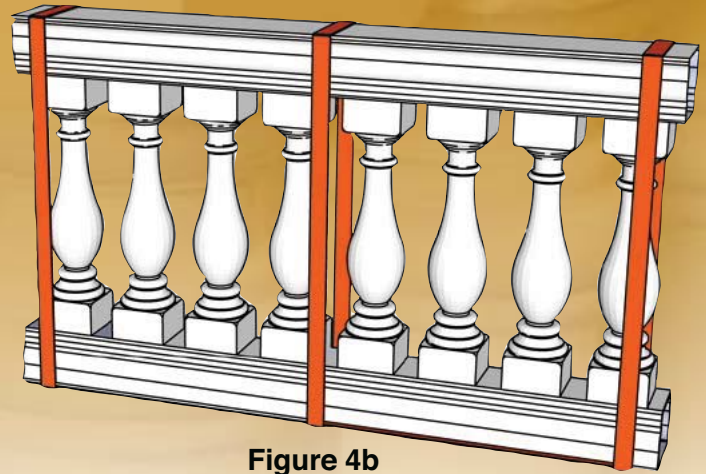
### 4. Spindle Spacing and Pre-Drilling (Figure 3)

- Take the number of spindles that you calculated in step #3, and divide the section's length by that number. This will give you the exact on-center-spacing for that specific section (each section that is a different length will have slightly different on-center-spacing).
- Find and mark the centerline on the top and bottom rails.
- Take the on-center-spacing calculated in "a", and divide it by 2. This will give you the distance from the newel post or wall to drill your first hole. Drill your first hole at this point on the centerline.
- Drill each additional hole along the centerline, at a distance of the on-center-spacing calculated in "a" until all holes are drilled for the section.





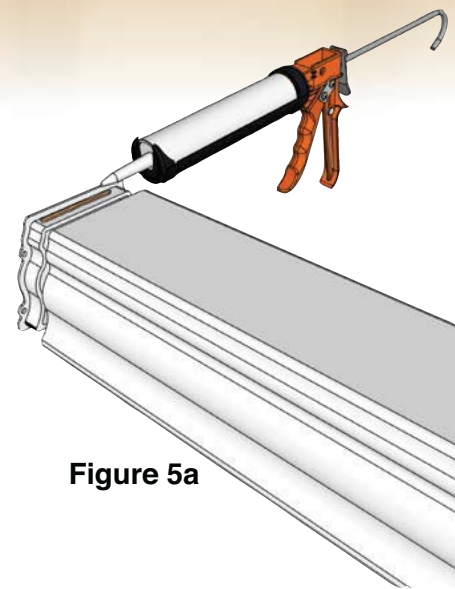
**Figure 4a**



**Figure 4b**

**5. Assemble Each Section (Figure 4)**

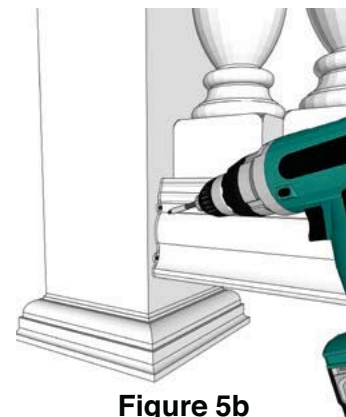
- a. Apply a small bead of PL Premium adhesive to the bottom of each spindle.
- b. Insert the bottom of the spindle rods into the pre-drilled holes on the bottom rail. Do this for every spindle in the section.
- c. Apply a small bead of PL Premium adhesive on the top of each spindle.
- d. Place the top rail over the spindles, inserting the spindle rods into the pre-drilled holes on the top rail.
- e. Use straps to hold the balustrade section together while the adhesive dries. PL Premium normally dries within 24 hours.
- f. Remove all excess adhesive.
- g. Remove straps once adhesive sets.



**Figure 5a**

**6. Attach the Assembled Sections to Newel Post or Wall (Figure 5)**

- a. Apply a bead of adhesive to the rail installation bracket insert.
- b. Insert the rail installation brackets into each side of the top and bottom rail.
- c. Screw the railing brackets into your newel posts/wall.



**Figure 5b**

