

# Palisade Vinyl Railing

## LEVEL Installation Instructions



It is the responsibility of the installer to meet or exceed all code and safety requirements, and to obtain all required building permits.

These instructions are only a guide and may not address every circumstance. The installer should determine and implement the appropriate installation techniques for each situation.

**VINYLAST INC Shall not be held liable for improper or unsafe installations.**



[www.palisaderail.com](http://www.palisaderail.com)

### **Step 1 Safety Precautions**

Check all local building codes for design load requirements for your railing applications. Our products meet or exceed F964 and also the requirements of the Boca Building Code section 1615.8, pertaining to railing. Always use safety equipment when installing our vinyl railing system.

### **Step 2 Post Preparation**

Install and prepare all mounting surfaces and posts to which your new maintenance-free railing will be installed. We suggest covering wood posts with our matching vinyl post sleeves or wraps. Finish with our post caps and base trim rings.

### **Step 3 Laying Out and Cutting Bottom Rail**

- Determine the level placement of bottom rail. This should be no greater than 4" and no less than 2 1/2" for 36" high railing and no greater than 2 1/2" for the 42" railing. Make a pencil mark at the bottom of the lower rail on the post. Measure up 3/8" above previous mark, then square and center the bottom of the black mounting bracket. Mark screw holes in the four corners of the bracket and then pre-drill four 1/8" holes. Screw the bracket base into place using (4) #10 x 1 1/4" pan head screws. Repeat on opposite post.
- After the bottom black mounting bracket is in place, measure from the bottom of the bracket up 31 1/4" for a 36" high rail and 37 1/2" for a 42" high rail and mark with a pencil. This will be the mounting mark for the bottom of the top bracket. Square and center the top black mounting bracket on the mark, pre-drill four 1/8" holes and screw into place using four #10 x 2" pan head screws. Repeat on the opposite side.
- Measure the distance inside the black brackets and cut the bottom rail to length. Make sure you have equal and maximum amount of spacing between the baluster and the post on each end. Always measure from the last hole out on each end to ensure an even spacing on both sides. Cut the vinyl and aluminum at the same time squarely using a power miter box or hacksaw.

### **Step 4 Mounting Bottom Rail**

- With the bottom rail cut to length, slide the bracket trim ring on each end of the rail, flat side towards the end of the rail facing the post. Set rail into place, align the bottom rail with level placement mark from step 3.
- With the bottom rail set into place, use the #10 x 1" self-tapping pan head screw through one of the holes along the side of the black mounting bracket through the rail and into the aluminum insert. Only one screw per side is needed. Slide the trim ring onto the black mounting bracket.

### **Step 5 Installing Balusters and Top Rail**

- Measure from post to post, deduct 1/8" and cut the top rail to the desired length. (Make sure the distance from the post to the baluster is the same both top and bottom.) Place a baluster in each hole. Slide bracket trim ring on both ends of the top rail (flat side towards the end of the rail) From one end, start to place top of baluster into the corresponding hole and work your way across the top rail.
- Once all balusters are in place, the top rail will rest in the black mounting bracket. Using #10 x 1" self-tapping pan head screw, align rail and the black mounting bracket appropriately and mount screw into the bracket holes provided, then through the side of the rail and into the aluminum insert. One screw per side is needed. Slide the trim rings onto the mounting brackets.
- Make sure all four bracket trim ring covers are snapped into place over the mounting brackets.

### **Step 6 Cutting vinyl post sleeves to height**

Posts that are cut prior to rail installation: You must first determine the finished height of the railing system and add 2 1/2" - 3 1/2" and then cut the post using a hand or power saw. Posts can also be cut after installation using the same measurement and the same cutting method (be sure to cut the top of the post square). Use a small amount of PVC glue or silicone caulk on the inside lip of the cap and mount in place.

### **Clean up**

Your job is now complete. Should your railing have any loose dirt on it from the installation, simply hose it off or wipe with a soft cloth. To remove stubborn stains use a household cleaner recommended for vinyl and #0000 steel wool.