HORIZONTAL BALUSTER INFILL

TOOLS NEEDED:
- Drill with #2 Square Drive Bit
- Circular Saw
- Speed Square
- Tape Measure
- Drill Extension

P300 LEVEL & STAIR KIT INCLUDES:
- Top Rail with Aluminum Insert
- Top Sub-Rail
- Bottom Rail w/Aluminum Insert (Optional)
- Intermediate Baluster
- Mounting Brackets with Screws
- 5/8" Round Aluminum Balusters with Buttons & Brackets
- Rail Support (Only with bottom rail)

A210 & A310 LEVEL & STAIR KIT INCLUDES:
- Top Rail
- Top Sub-Rail (A210 Only)
- Bottom Rail
- Intermediate Baluster
- Mounting Brackets with Screws
- 5/8" Round Aluminum Balusters with Buttons & Brackets
- Rail Support (Only with bottom rail)

P300 Cellular PVC Railing (Shown without bottom rail option)

A210 Aluminum Railing (Shown without bottom rail option)

A310 Aluminum Railing (Shown without bottom rail option)

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HORIZONTAL BALUSTER INFILL
LEVEL INSTALLATION

BEFORE STARTING
• Follow instructions for your rail technology to mount brackets and rails to your posts.
• Determine rail length and cut accordingly.

STEP 1 - PRE-DRILL RAILS FOR INTERMEDIATE BALUSTER BRACKETS
• Remove brackets from intermediate baluster.
• Position bracket in center of rails, mark holes and pre-drill with 1/8" bit or, if no bottom rail is being used, position intermediate baluster bracket directly on surface centered between posts.
• At this time, do not attach intermediate baluster brackets.

STEP 2 - CUT INTERMEDIATE BALUSTER
• Measure distance between top & bottom rails.
• Deduct 1-5/8" for intermediate baluster brackets.
• Transfer this measurement to the intermediate baluster.
• Making sure to keep equal distance from intermediate baluster end to first hole, both top and bottom, cut to length.

STEP 3 - INSTALL BRACKET BUTTONS
• Insert the intermediate baluster brackets on to the intermediate baluster.
• Place the baluster against the post between the top and bottom rail (or surface) and mark where to drill the holes for the button brackets. (Each concurrent mark should be 4-3/16", on center, on each post. The use of optional template #203012 is advised for accuracy.)
• Pre-drill each mark with a 1/8" size drill bit.
• Secure buttons to posts with supplied screws.

NOTE: If using a structural post it is highly recommended that a structural component, part #401054 for 36" rail, #401055 for 42" rail be used to ensure proper adherence of buttons to post.

STEP 4 - CUT HORIZONTAL BALUSTERS
• Measure distance between posts and deduct 1-1/4". Cut horizontal balusters to length.

STEP 5 - INSTALL INTERMEDIATE BALUSTER
• Position the bottom intermediate baluster bracket over the previously drilled holes in the bottom rail and attach bracket.
• Insert the top intermediate baluster bracket on to the intermediate baluster.
• Insert intermediate baluster into attached bottom intermediate baluster bracket.
• Position top intermediate baluster bracket over previously drilled holes and attach bracket to top rail.

STEP 6 - INSTALL HORIZONTAL BALUSTERS
• Insert horizontal balusters through holes of intermediate baluster.
• Slide brackets over each end of each horizontal baluster with threaded side toward the buttons.
• Position and screw brackets onto buttons.

NOTE: If they do not line up perfectly, apply pressure to the horizontal baluster until bracket is screwed completely onto button in order to prevent cross-threading.

STEP 7 - FINISHING STEPS
• To prevent rattling, tighten all set screws with an M4 allen wrench.

Fairway Architectural Railing Solutions will not be held liable for incorrect or unsafe installations by the installer. It is the installer’s responsibility to secure proper building permits, review local codes and safety needs and meet or exceed them. The instructions provided by Fairway are a guide and may not account for every special circumstance. The installer must indentify and execute the installation approach that is appropriate for every application.
**HORIZONTAL BALUSTER PANEL INFILL**

**STAIR INSTALLATION**

### BEFORE STARTING
- Follow instructions for your rail technology to mount bottom rail to posts if using a bottom rail.
- Determine rail length. Cut and install accordingly.

### STEP 1 - INSTALL INTERMEDIATE BALUSTER BRACKET
- Remove brackets from intermediate baluster.
- Position bracket in center of rail or, if no bottom rail is used, position bracket in center between posts on stair tread. Mark holes and pre-drill using 1/8” drill bit.
- At this time, only attach bottom bracket to bottom rail or tread.

### STEP 2 - INSTALL BRACKET BUTTONS
- Starting at top stair post - Line up buttons with corresponding level rail buttons, if possible. This will ensure continuity of horizontal baluster flow from level to stair.
- Mark and drill button location using 1/8” drill bit.
- If using a structural post, it is highly recommended that a structural component, part # 401054 for 36” rail or #401055 for 42” rail be used for proper adherence of buttons to post.
- Bottom stair post - If using a bottom rail, measure from top of bottom rail to the center of the bottom button hole on the upper post, then transfer this measurement to the lower post. Each subsequent hole should be 4-3/16”, on center. The use of optional template #203012 is advised for accuracy.
- If no bottom rail is used, use the horizontal baluster itself to determine the bottom hole placement on the lower post. Keep same distance off tread nose to ensure proper placement.

### STEP 3 - INSTALL TOP RAIL & SUB RAIL (IF APPLICABLE)
- Use the top horizontal baluster as a guide or measure off the top hole for top rail placement. Be sure that enough space is left for top rail intermediate baluster bracket. Allow for a minimum of 2” between bottom of top rail and the first horizontal baluster.

### STEP 4 - CUT & INSTALL INTERMEDIATE BALUSTER
- Measure distance between top & bottom rails and deduct 1-5/8” for intermediate baluster brackets.
- Transfer this measurement to the intermediate baluster.
- Making sure to keep equal distance from the intermediate baluster end to first hole, both top & bottom, cut to length.
- Remove top and bottom horizontal baluster, if installed.
- Insert bottom of intermediate baluster into baluster bracket.
- Insert top baluster bracket onto intermediate baluster, plumb up baluster, mark bracket holes and pre-drill with 1/8” drill bit.
- Install bracket and intermediate baluster.

### STEP 5 - CUT & INSTALL HORIZONTAL BALUSTERS
- Position the adjustable angle brackets to the desired pitch or angle location and tighten them to a fixed position.
- Measure the distance between the brackets, where the threads originate on the bracket, and deduct 1/8”. Cut horizontal balusters to length.
- Insert horizontal balusters through intermediate baluster.
- Slide brackets over each end of each horizontal baluster with threaded side towards buttons.
- Screw brackets onto buttons.

**NOTE:** If they do not line up perfectly, apply pressure to the horizontal baluster until bracket is screwed completely onto button in order to prevent cross-threading.

### STEP 6 - FINISHING STEPS
- To prevent rattling, tighten all set screws with an M4 allen wrench.

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CLEANING AND MAINTENANCE TIPS FOR YOUR RAILING

It’s easy to maintain the great look of your railing. Like anything exposed to the elements, your railing or fence will get dirty, but in most cases you can simply spray the dirt off with your garden hose. For more stubborn dirt or stain removal, follow these simple instructions:

NOTE: BE SURE TO PROTECT SHRUBBERY FROM DIRECT CONTACT WITH CLEANING AGENTS.

Stubborn Dirt
1. Use a slightly moist Mr. Clean Magic Eraser Cleaning Pad® to scrub your railing or fence. This should remove most stains.
2. Use an ordinary soft bristle wash brush and scrub your railing or fence just like you would wash your car.
3. If the dirt is difficult to remove, such as soot found in industrial areas, wash the railing or fence with a solution made up of the following:
   - 1/3 cup powder detergent (e.g. Tide, Fab, or equivalent powder detergent)
   - 2/3 cup household cleaner (e.g. Soilax, Spic & Span or equivalent)
   - 1 gallon of water
4. If mildew is a problem in your area add 8 fluid ounces of liquid laundry bleach to above solution.
5. When washing your railing or fence, prevent streaking by starting at the bottom and working up to the top.
6. If stubborn stains exist, follow the precautionary labeling instructions on the cleaning agent container.

Stain Removal
1. Light oils and greases, heavy grease, cauliung compounds, wax, crayon, asphalt, tar, etc.:a. Use a slightly moist Mr. Clean Magic Eraser Cleaning Pad® scrub your railing or fence.
   b. Cleaning Agents: Mineral spirits, VMP naptha, auto tar remover.
   c. Preparation: Remove excess with plastic or wood scraper.
   d. Special cleaning procedures: Apply oxalic acid solution with soft bristle brush.
2. Inks (marking), nail polish, paint, lipstick, gum:
   a. Cleaning agents: Oxalic acid, auto radiator cleaner, Bright bowl, Riddo-Rust
   b. Preparation: Make solution of 1 tablespoon of oxalic acid crystals to 1 cup warm water.
   c. Special cleaning procedures: Apply oxalic acid solution with soft brushy bristle. Wipe with damp cloth and then flush with rust free water (use rubber gloves and eye protection).
3. Rust stains:
   a. Cleaning agents: Oxalic acid, auto radiator cleaner, Bright bowl, Riddo-Rust
   b. Preparation: Remove excess with plastic or wood scraper. Chill gum to remove excess.  
   c. Special cleaning procedures: Use soft cloth to apply mineral spirits.*
   * Maintain light pressure to avoid polishing stained area. After removing stain, rinse area thoroughly with clean water.
   d. Special cleaning procedures: Oxalic acid (trichloroethylene)
5. Waterproofing:
   a. Preparation: Remove excess with plastic or wood scraper.
   b. Special cleaning procedures: Use soft cloth to apply mineral spirits.*
   * Maintain light pressure to avoid polishing stained area. After removing stain, rinse area thoroughly with clean water.
6. Rust staining:
   a. Cleaning agents: Oxalic acid, auto radiator cleaner, Bright bowl, Riddo-Rust
   b. Preparation: Make solution of 1 tablespoon of oxalic acid crystals to 1 cup warm water.
   c. Special cleaning procedures: Apply oxalic acid solution with soft brushy bristle. Wipe with damp cloth and then flush with rust free water (use rubber gloves and eye protection).
7. Product that has been painted or had its surface treated with other than approved chemicals.

LIFE TIME & 15 YEAR LIMITED WARRANTY TERMS, CONDITIONS & LIMITATIONS

LIMITED WARRANTY

Fairway Architectural Railing Solutions (FAIRWAY®) warrants its cellular PVC, aluminum, fence, vinyl, and metal products subject to the limitations listed herein, to be free from defective workmanship and materials, and when subject to normal and proper use, it is further warranted against surface peeling, rot, ground insects, splitting, corrosion, flaking, rusting and blistering, abnormal weathering or abnormal discoloration under conditions of normal use and service. FAIRWAY warrants only those products manufactured and sold under the FAIRWAY or “By FAIRWAY” name. The Limited Warranty extends only to the original purchaser according to terms specified herein. EXCLUSIONS: FAIRWAY shall not be liable for and this warranty does not apply to any terms, failure, defect or damage resulting from or connected with the following:
A. Defects not caused by FAIRWAY (for example, but not limited to: accidents, misuse, improper applications or installations contrary to industry or FAIRWAY standards).
B. Product that has been painted or had its surface treated with other than approved chemicals.

PRODUCT OWNER/REGISTER

Register warranty at FairwayRailing.com/warranty-registration.