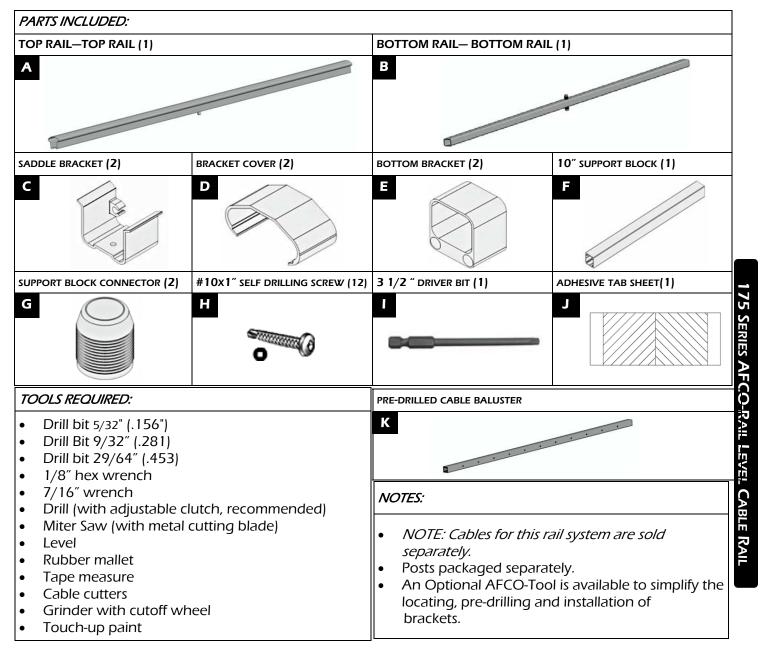
Series 175 AFCO– Level Cable Rail



INSTALLATION INSTRUCTIONS



AFCO Columns and Railings a Division of AFCO Industries, Inc.



FOR A SUCCESSFUL INSTALLATION:

- Read the instructions completely before beginning the installation.
- Plan your railing project. Sketch your project with the actual measurements of your deck or balcony
- complete with post locations.
- Check local building codes to ensure compliance.
- Check carton(s) to determine part count is complete.
- After cutting rails, balusters, or posts, paint exposed metal for maximum protection against the elements.
- Installation is best accomplished with two people.
- Wear personal protection equipment; safety glasses, etc.
- Use care not to over-torque the screws. Pre-drilling is recommended.
- Provided hardware to install AFCO-Rail is for use with Aluminum AFCO-Rail posts. If installing to other surfaces the installer must acquire the appropriate hardware as needed for proper installation.

INSTALLATION INSTRUCTIONS CONTINUED

POSTS INSTALLATION:

- 1. Measure and locate the position of the post(s) based on the project layout. Pre drilled holes must be installed in-line with the direction the cables will follow.
- 2. Install the post by attaching the aluminum mounting flange to the surface of the deck or balcony. Position the post so the fastener will go into the floor joist, and make sure the decking is firmly attached to the joist at the location of the post. If necessary, use wood blocking as reinforcement underneath the decking where the posts are located. Post mounting fasteners should be able to secure into the joist or reinforcement braces, not just the decking itself. When installing AFCO-Rail Post on top of a wood surface, screws must be lagged into at least 3" of solid wood. Deck boards sized 5/4" or 1-1/2" do not provide sufficient material for a safe installation.

Note: When installing AFCO-Rail Post onto treated wood surface, install the provided ACO pad (included in the post kit) between the post base and the treated surface.

- 3. Position the post to the deck surface. Four 3/8" diameter mounting holes are provided on the mounting flange. Mark the mounting flange hole locations and remove the post. Pre-drill the marked locations into the decking and reinforcement for the appropriate fasteners. Remount the post with the pre-drilled holes for the cables in the correct direction per the project requirements. Insert the appropriate fasteners to secure the mounting flange to the deck structure.
- 4. Finish by sliding the base trim to the bottom of the post to cover the mounting flange.
- 5. To install the post cap, set post capital in place on top of the post and tap lightly with a rubber mallet to drive the post cap onto the post. Silicone or water based caulking may be used to secure the post cap and base trim. *(Note: Cap installation step is typically completed after all rails have been installed.)*

LEVEL CABLE RAIL INSTALLATION:

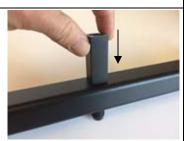
1. Measure the opening between the installed posts. If required to cut rail shorter than provided, start with the Bottom Rail (B), and mark the rail to the same distance measured between posts. Carefully cut the rail to the required length. Trimming the rail from both ends will be required to keep the support baluster centered between posts. Align the baluster connectors on the top and bottom rail. Mark and cut top rail 3/8" shorter on each end than the bottom rail.

(The top rail is cut a total of 3/4" shorter than the bottom rail for bracket clearance)

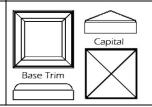
Note: One Support Block, cut from Support Block Material (F), is recommended for rails measuring 72" or less. Install the Support Block Connector (G) at center point of Bottom Rail (B] If two or more Support Blocks are used, install Support Block Connectors (G) equally distributed from each end of the Bottom Rail (B).

2. Cut 10" Support Block (F) to required length and press over the Support Connector installed in step 2. Support block is typically cut at 2", but longer based on your project needs and code requirements.

(Note: all cut dimensions in this instruction is based on 2" space under the Bottom Rail and 36" height top rail. Any variation from this will require additional measuring and planning for bracket placement.)



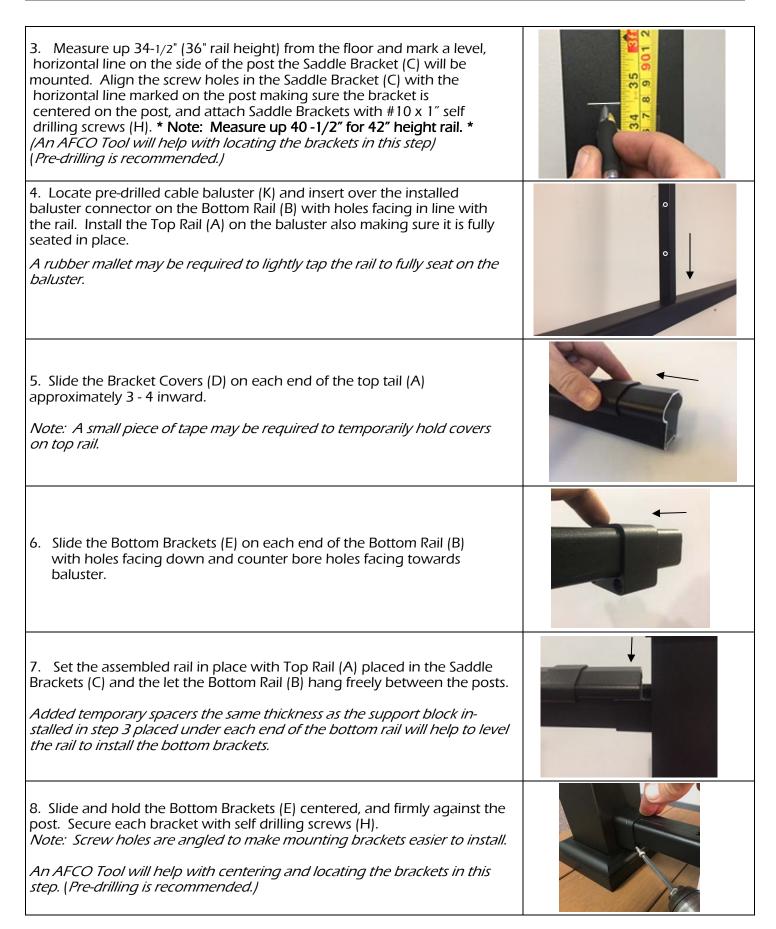
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INSTALLATION INSTRUCTIONS CONTINUED

PAGE 3



INSTALLATION INSTRUCTIONS CONTINUED	PAGE 4_
9. Apply adhesive tab (J) to flat surface of Top Rail (A) near the post. Slide Bracket Cover (D) to interlock with the flange on the saddle bracket.	
10. Screw self-drilling screws (H) into the Top Rail (A) from the underside of each Saddle Bracket (C) through the provided locating hole to securely fasten the rail.	
CABLE INSTALLATION	
1. Drill out and enlarge the holes in the outermost wall <i>only</i> of the first post with a 9/32 ^{<i>r</i>} drill bit through the holes already in the post, and also drill the outermost wall <i>only</i> on the opposite end of the cable run with a 29/64 ^{<i>r</i>} drill bit. This step is to allow the cable fittings to be installed.	
2. Remove cable and fittings from packages and install the required washer and brass nut on the threaded stud end of the cables, and feed the bare ends of the cable through all posts and support balusters starting at the holes drilled out to 9/32".	
3. Slide Line Fittings with required round black washers onto the cables while twisting in a clockwise motion until the fittings are fully seated in the end post. Pull the bare ends to remove as much slack as possible. Trim all ends of the cable sticking out of the fittings with a cutoff wheel and press the cap onto the fittings.	
4. Return to the treaded stud end of the cables and starting with the centermost cable insert a 1/8" hex wrench into the end of the treaded stud. Tighten the locknut with a 7/16" wrench while holding the hex wrench to prevent the cable from turning.	6
5. It is recommended that you follow the sequence of tensioning the cables starting at the center and alternating above and below until all cables are properly tensioned. As cables are tensioned give a sharp pull downward mid-span to set the fitting wedges, then re-tension as necessary in the same sequence.	975312468
 When all cables are tight, cut off any exposed threads near the locknut as possible using a cut-off wheel or hacksaw. Press the nut cap over the locknut. 	
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For more information, contact Customer Service at 1-800-599-9912 or visit our website at www.afco-ind.com.