

# Age Craft

## MANUFACTURING

### Colonial Railing Installation Instructions

#### Tools:

1. Hacksaw
2. Drill/Masonry Drill
3. Level
4. Phillip Screwdriver
5. 1/4" punch (sloped application only)
6. 7/16 & 9/16 Sockets and Ratchet
7. 5/32" HSS Drill bit
8. 1/4" HSS Drill bit
9. 5/16" Masonry Drill bit (for concrete only)

#### Determine location of post:

Take note that the newel post flange is 5" x 6" (not square) be sure to position flanges in one direction. Edge of post flange should be located a minimum of 1 1/2" from edges of concrete. Drill 4 - 1/4" holes in the underside of the flange using the predetermined position guides. Place post in desired location and mark hole locations onto platform surface.

Sloped Surfaces: The newel post flange is preset at 90 degrees but is angle adjustable for ramp/sloped applications. To adjust and lock follow these steps:

- 1) Located on the underside of the newel post flange is a 9/16" bolt head and a 1/4" steel roll pin.
- 2) Use a 1/4" punch to punch out the 1/4" steel roll pin.
- 3) Use a 9/16" socket to loosen the bolt slightly. Tap the newel post on the surface to set the angle and plumb with a level.
- 4) Use a 9/16" socket to tighten the bolt.
- 5) Drill a 5/32" hole in the opposite side of the flange from the roll pin hole and secure with a #14 x1/4" lag screw.

#### Attaching Post to:

- A) Masonry platform - Drill 5/16" holes on the premarked concrete. Insert plastic bantam plugs and anchor with #14 x 2" stainless steel lags.
- B) Wooden platform - Drill 5/32" holes on the premarked wood. Anchor with #14 x 2" stainless steel lags. Plumb post with level while tightening.

#### Note:

If wood or masonry surface is uneven or slopes in the opposite direction of the adjustment, use shims under flange.

#### Cut Rail to size:

#### Straight application:

Measure the distance between posts or between wall and post. Subtract 1/8" from exact measurement to determine the length of the rail required to fit the opening.

### **Step/Sloped application:**

Measure the distance between posts or between wall and post. Subtract 3 3/4" (for utility connectors) from exact measurement to determine the length of the rail required to fit opening.

### **Note:**

To maintain equal picket spacing cut an equal amount from each end of the rail. ( example: To cut 3 3/4" off - cut 1 7/8" off each end of rail)

### **Straight application:**

Place straight connectors onto other ends of the rail top and bottom. Face the flat part of the connector flange toward the end of the rail. Slide rail with connectors on into opening. Use a level on the top rail to level the section. Mark the connector holes onto the post. Drill 5/32" holes for the connectors. Attach connectors to post with 8 - #10 x 1/2" stainless steel screws (provided in connector package).

Use 4 - #10 x 1/2" stainless steel screws (provided in straight connector package) to lock the rail section into the fittings on the inside (the side with the rivet roll not the rivet head) of the rail section.

### **Step/sloped application:**

Attach utility connectors ends onto both ends of the rail top and bottom using 8 - #10 x 1/2" stainless steel screws (provided in utility conn. Package). Slide rail, with connectors on, into opening. Set rail to the desired pitch or slope. Hold utility connector base plate on post at the desired height. Mark the utility connector base plate holes onto the post. Drill 5/32" holes for the base plate connectors. Attach all utility base plate connectors to posts with 16 - #10 x 1/2" stainless steel screws (provided in utility conn. Package). Drop rail down into base plates from top and drill 5/32" holes into utility connector ends through predrilled hole in utility conn. Base plate on both sides of rail section. Use 8 - #10 x 3/4" stainless steel screws (provided in utility connector package) to attach and lock in position.

**Optional Information:** If your rail section comes with a center picket to the floor for additional strength, you may choose to purchase a stub shoe to secure this picket. Place the picket into a hole in the platform or cut the picket even with the surface of the platform.