

Installation of the Secondary Handrail:

Tools Needed:

- Drill for pre-drilling holes in rail & post.
- Tape measure.
- ¼" & 13/64" drill bit.
- Miter box & saw or miter chop saw
- Phillips screw driver

Secondary Handrail Kit includes:

- 1 – 95 ½" handrail
- 1 – 12" return rail
- 2 – post mount brackets (w/ screws)
- 1 – baluster mount bracket kit (w/ screws & spacer)
- 1 – two part adhesive kit
- 2 – white paint pens



Helpful hints:

- Hold or clamp rail securely when cutting to prevent surface chipping.
- Thoroughly clean all cut edges of loose chips and dust prior to adhesive application.
- After cutting, radius exposed edges (min. 1/8") and coat all surfaces using color matched paint pen (included).
- The top of the handrail must be mounted 34" - 38" above walking surface to meet ADA requirements.
- A return rail (from end of handrail to post) is a requirement for ADA compliant rail systems.

Installation:

- To locate the required hardware mounting position on the post, first determine the required handrail height. This dimension must be 34"- 38" measured vertically from the top gripping surface on the handrail to the walking surface, (deck, stairs, or ramp).
- Once rail height is determined, measure the outside dimension from post to post at this height.
- Transfer this length to the handrail, and cut to size, at a 45° angle.
- From the determined rail height, subtract 4" and mark the center of each post for drilling the hole for the mounting brackets.
- Drill a 13/64" hole in each post at this location and mount hardware brackets to post. Do not fully tighten screws at this time.
- Cut two (2) returns from the extra provided handrail section at a 45° to 3 1/2".
- Clean all cut surfaces of any loose dust or chips. After cleaning, wipe down all cut surfaces with the provided "Alcohol Prep Pads" to prep surfaces for bonding. Allow surfaces to dry before next step.
- Apply an adequate amount of the provided two part epoxy to the cut surfaces, and bond cut returns to the main section of handrail (see manufactures recommended instructions).
- Hold bonded return rail and handrail sections in place until set and secure (approximately 5 minutes) Peel off excess adhesive by hand when dry.
- Position the completed rail section into place and pre-drill 13/64" mounting holes in bottom of the rail. Install screws to mount rail to brackets.
- With the completed handrail in place, determine the mounting location of center support (required for rail lengths 48" or greater) on the adjacent baluster.
- Temporarily place the baluster mount in position and mark the center hole location. Drill a 1/4" hole through the center baluster at this location .
- Install the provided 7/8" bracket spacer, run the bolt through bracket, spacer, and baluster. Attach the lock washer and acorn nut.
- Pre-drill the two 13/64" hardware mounting holes in the bottom of handrail for center bracket, and install the screws.
- Tighten all mounting screws.

