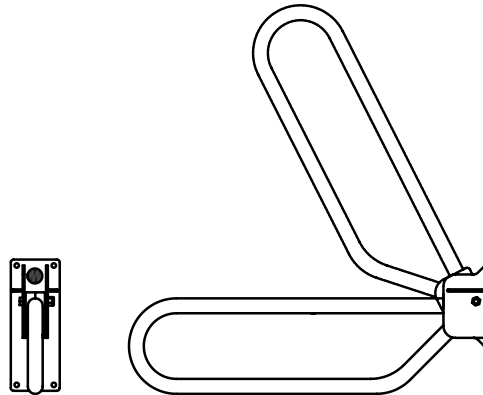




## FLIP-UP SAFETY RAILS



### Included Materials

- One (1) safety rail
- One (1) wall brace
- Four (4) stainless steel  $\frac{5}{16}$ " x 2  $\frac{1}{2}$ " Hex Lag Bolts

### Tools and Materials (not included)

- Drill - electric or manual
- $\frac{7}{32}$ " wood or metal drill bit
- $\frac{5}{16}$ " masonry drill bit (for tiled walls)
- Measuring tape
- Wrench
- Level

### ⚠ Safety Cautions

- Professional installation is always recommended to ensure safety and compliance with local building codes. Self installation may lead to injury due to improper setup.
- Flip-up safety rails are **NOT** designed to move from side to side, move the rail up and down **ONLY!**
- Flip-up Safety Rails are **ONLY** as strong as the strength and rigidity of the material to which they are mounted. They must be mounted through the shower wall and screwed directly to a wooden or metal stud. When properly installed, flip-up rails are rated at 250lbs for standard rails and 600lbs for heavy duty rails at any point.
- When drilling into the wall, exercise extreme care to avoid any electrical wiring or plumbing that may be located behind the wall. Older homes may **NOT** always fall in line with current housing codes and requirements. Make sure to verify where internal wiring is located in the wall so that no wires will interfere with the installation. Damaged electrical wiring can cause electrical shock

and fire.

- Proper installation is extremely important. Special fasteners may be required if wood is **NOT** in the desired location. If in any doubt, stop and contact a qualified professional for safe installation.

## Preparation

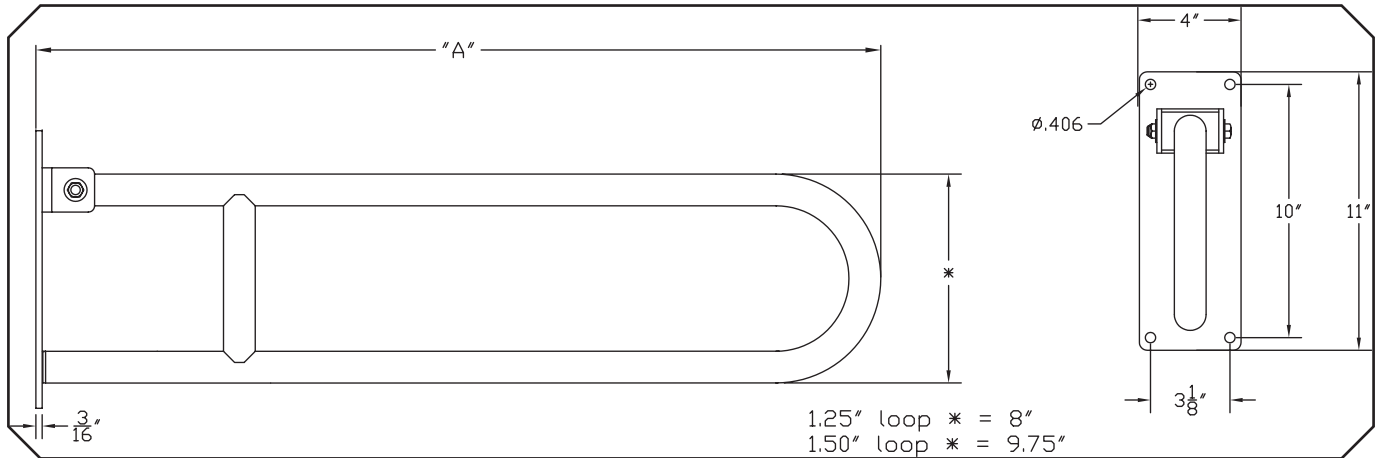
Check local code for proper placement of the Safety Rail to meet requirements such as from the ADA or the ANSI 117.1 Consumer Safety Requirements. Before installing the Flip-Up Rail, prepare the area and clean the portion of wall that the Flip-Up Rail will be installed onto.

### ROUGH-IN INSTALLATION:

Determine where the Flip-Up Rail will be mounted and install bracing to the rough-in framing to support the Flip-Up Rail through the wall.

### EXISTING WALL INSTALLATION:

Locate the stud behind the existing wall and determine where the Flip-Up Rail can safely be mounted.



## Installation

### Step 1:

If necessary, reinforce the wall studs prior to beginning installation to meet compliance with local building codes. This may require a professional.

### Step 2:

Position the anchor plate as shown in (Fig. 1) so that the top is level with the floor and the top of the plate is 35" (889mm) above the finished floor and mark where the holes will be placed with a pencil or other utensil. This will position the centerline of the top bar at 33" (838mm) above the floor when in the "down" position. Drill  $\frac{1}{8}$ " pilot holes through the shower wall into the wood or metal stud.

**NOTE:** If the wall is tiled, drill through the tile ONLY with a  $\frac{5}{16}$ " diameter masonry or ceramic tile drill bit and complete drilling the rest of the whole with the  $\frac{7}{32}$ " bit.

### Step 3:

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Mount the rail and anchor plate to the wall and tighten the four lag screws with the wrench in a "cross" pattern to ensure even distribution and alignment to the finished wall. Test that the rail is able to remain in the "up" position by itself and can be lowered to the "down" position with little effort.

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