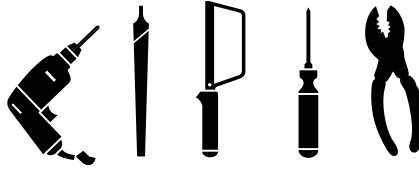




MARKSTAAR's handrail installation document is only a general representation of a generic handrail installation. Handrail kits may or may not include all products represented in this illustration.

## Necessary Tools

- Electric Drill/Electric Screwdriver
- Hack Saw/Cut Off Saw
- Phillips Screwdriver
- File
- Channel Lock Pliers



## Plan

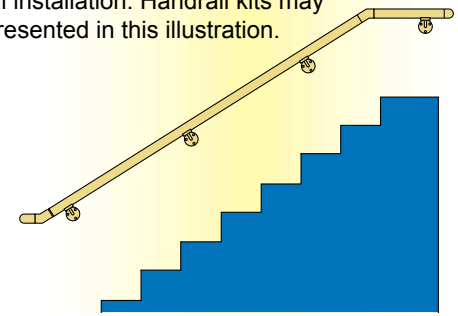
- Measure your staircase where you will be installing your handrail.
- Make a simple sketch of your handrail. The materials needed include tubing, handrail brackets, finials suited for handrails (606 and 608) and 730A angle. You may also need tube splices and elbows, depending on your specific project.
- Determine the length of the tubing and be sure to include the dimensions that the brackets and fittings may add or subtract from the overall length of the tubing.
- Create a detailed part list consisting of all parts and quantities required. When calculating quantities of brackets required, place a bracket 6" from the tube ending and either side of an elbow. Then space equally throughout the length of the rail. We recommend spacing the brackets 36" to 48" apart. In most cases, it is desirable to transition the handrail past the last stair, with a horizontal rail of 6" - 12" length. For each transition, use our 730A 147° angle.

## Preparation

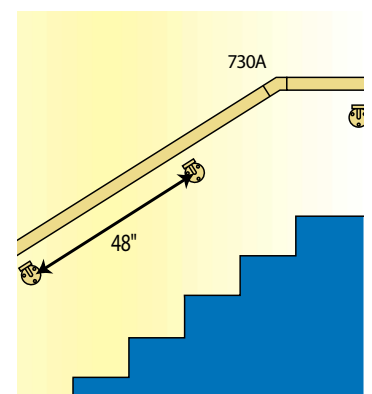
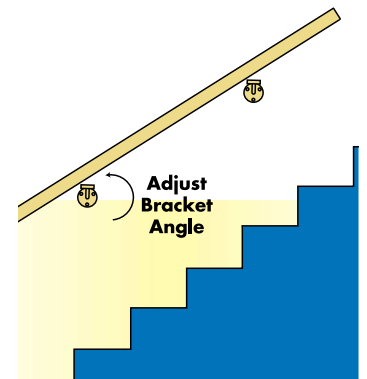
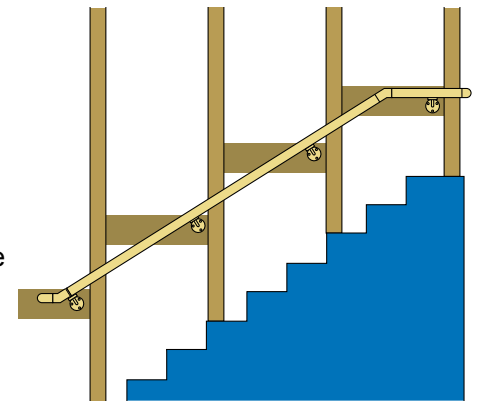
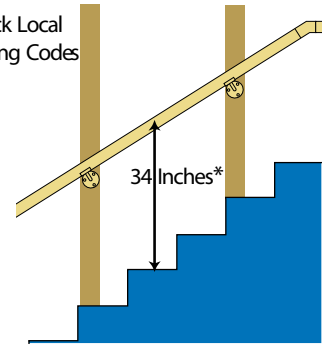
- Mark the tube for the appropriate length for cutting. Double-check all measurements before cutting. See How To Cut Tubing Instructions.
- Please note that LIDO tubing comes wrapped in a layer of plastic film that should be left in place as long as possible during the installation process to protect the finish of the metal.
- Mark the location of your brackets with a pencil. The bracket must be anchored to a wall stud or to a solid backing of at least 3/4".
- LIDO's 730A angle allows you to transition the rail to a horizontal direction, when the staircase has reached a landing or the next level. Proper termination of the rail should be with a horizontal direction of 6" - 12" when the situation allows for it.
- Carefully read the instructions for the LIDO Weld® and setscrews prior to installation.

## Installation

- Once you have the right height and position of the bracket, begin to attach the brackets loosely to the wall with one screw.
- Place the tube on the brackets and adjust the brackets for proper angle before you securely tighten the brackets to the wall with the rest of the bracket screws (provided.)
- Securely tighten tube to brackets with setscrews.
- To secure finials or wall returns, apply a continuous bead of LIDO Weld around the interior surface of one part and press and rotate it into its mate.
- Once installation is complete, remove the existing protective plastic film from the tubing.
- Maintain the rich finish of your rail with LIDO-Lustre® metal polish.



\*Check Local Building Codes



[MARKSTAAR.com](http://MARKSTAAR.com)

318 East 8th Street | Post Office Box #189 | La Crosse, KS 67548

Phone: 785-222-2515 | Toll-Free: 888-846-2693 | Toll-Free Fax: 866-436-7601