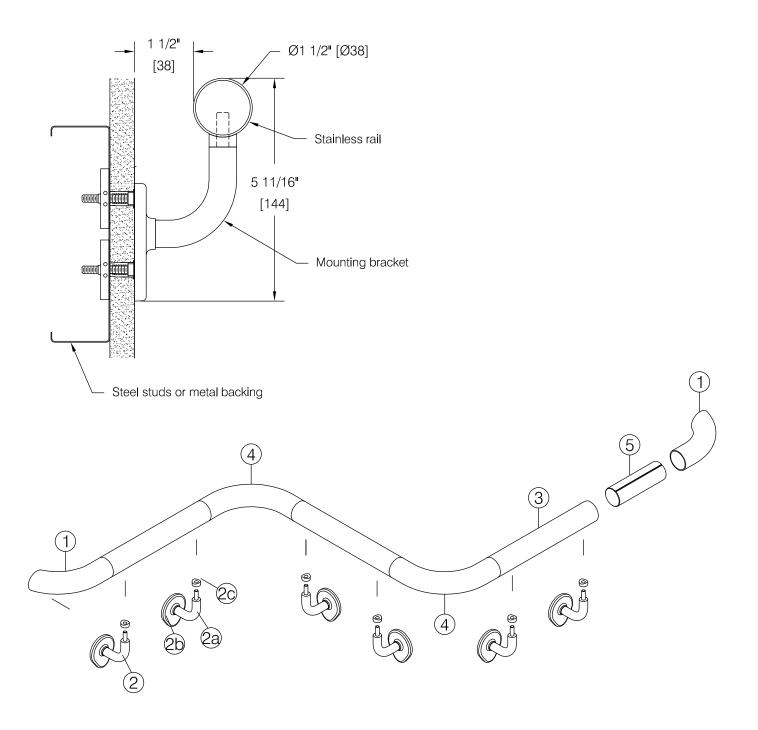


BR-1600S Series Handrail



Component Part Numbers:

- 1.) BR-1625 left/right return
- 2.) BR-1607F bracket
 - a. Base plate and rod, welded assembly
 - b. Flange cover
 - c Shim

- 3.) BRS-1600S stainless steel rail
- 4.) IOC-1650 inside/outside corner
- 5.) SPL-1600S splice



BR-1600S Series Handrail Installation Instructions

Step 1: Determine top of handrail height and snap a chalk line 3 1/2" below for the centerline of the two uppermost

mounting holes, see fig 1.

Store material in a clean dry place where the temperature is maintained above 50°F (10°C). Walls and rooms Important:

should be maintained at a minimum of 65°F (18°C) for at least 48 hours prior to installation. Acclimate materials to normal building conditions for at least 24 hours before cutting and installing.

Layout and cut stainless handrail. See Cutting Adjustment Diagrams and Schedule for adjustments to handrail Step 2:

length at wall returns and corners. Refer to Minimum Layout Configurations for additional information. See step

8 for splicing information.

All cuts must be square. Select a cutting method that will minimize creation of heat during the cut. Excessive heat Important:

will cause discoloration of the stainless steel that is not easily removed without special equipment or damage to the finish of the rail. Deburr using smooth cut file being careful to minimize damage to the external finish of the

handrail tubing.

Step 3: Attach wall returns and one side of corners to rail by applying a layer of two-part urethane adhesive (included) to

the inside of handrail and accessory tubing, see fig 2. Follow mixing and curing instructions on adhesive packaging for proper use. Install the internal compression splice into the accessory first, and then install the

splice/accessory combination into the rail.

If rail has a wall return or corner at each end, lay assembly on a flat surface to ensure accessories are aligned with Important:

one another in the same plane. Allow adhesive to cure to handling strength before proceeding with the next

installation step.

Step 4: After the adhesive has been allowed to cure to a minimum of handling strength, lay railing on a flat surface with the

underside facing up. Wall return and corner accessories will help to stabilize the rail while bracket mounting holes are added. Using a 1/4" diameter drill, locate and drill bracket mounting holes through the underside of the handrail tubing. If the bracket occurs within the area of an internal splice, drill through both the handrail and the splice.

Thread bracket mounting holes with a 5/16"-18 taper tap, see fig 3.

Brackets must be spaced:

Not to exceed 32" on center

1 1/2" to 6" on center from end of rail at wall return and corner accessories. Bracket spacing must allow clearance for installation of corner quards where applicable. For example, space bracket a minimum of 3 1/4" in from end of rail for a 3" corner guard at outside corners.

A maximum of 12" from end of rail at splice to provide support at splice.

To align with metal studs (on metal stud construction) or preferably with horizontal metal backer plate (by others).

Step 5:

Slide a flange cover loosely over bracket base plate and rod assembly. Slide a shim over the threaded stud with the "cup" facing upward, see fig 4. Thread a bracket into each hole and tighten to align base plates with each other

and parallel to the rail. Be sure handrail tubing is seated properly in cup of shim.

Step 6: Using the rail and bracket assembly as a template, locate and drill mounting holes in wall construction. Mark the

location of all three holes, aligning the center of the two uppermost holes with the chalk line provided in step 1.

Choice of hardware will dictate hole diameter.

Step 7: Mount rail and bracket assembly to wall with the appropriate hardware according to wall construction.

Suggested hardware:

Drywall: Toggler® brand toggle bolts

Masonry: Plastic Alligator® insert

Important: Be sure to install corner accessories between rails before securing rail at both sides of corner. Use adhesive to

install second side of corner accessories, see step 3.

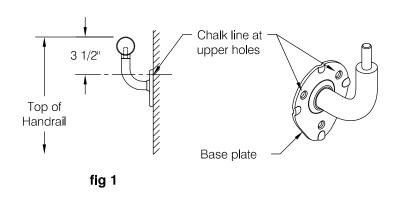
Refer to fig 5 for splicing of rail. Locate splice a maximum of 12" from bracket. Install splice by applying a layer of Step 8:

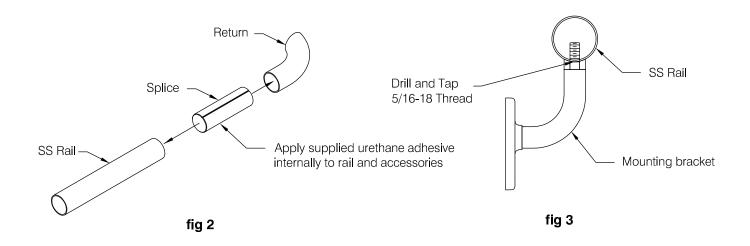
two-part urethane adhesive (included) to the inside of handrail on each side of the joint. Install splice so that it is

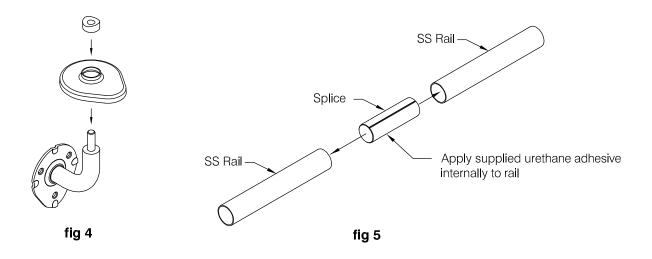
engaged at least 1" on both sides of the joint.





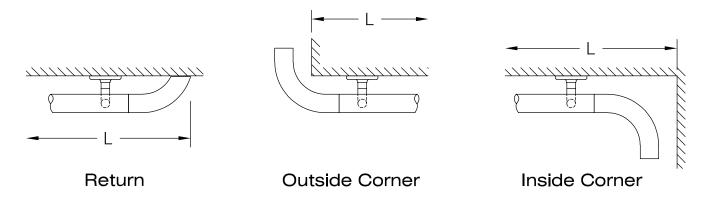








Cutting Adjustment Diagrams and Schedule



Stainless Rail

Return	L - 5 1/16"
Outside Corner	L - 2 1/4"
Inside Corner	L - 6 3/4"

Minimum Layout Configurations

