

# Assembly/Installation Instructions

## Speed-Rail®



Constructed of aluminum/magnesium alloy, Speed-Rail Systems are manufactured with maximum flexibility and strength in mind to provide you with years of structural integrity for a wide variety of demanding applications. In addition the flexibility, strength and cost efficiency, Speed-Rail fittings are non-magnetic and non-sparking and are virtually maintenance free. Speed-Rail is the fastest to install, easiest to repair and reconfigure.

### Tools Needed:

- Tape Measure
- Chalk Line
- Portable Chop Saw
- 3/16" Hex Driver and Socket Wrench
- Hammer Drill with 3/8" Bit

## Step 1

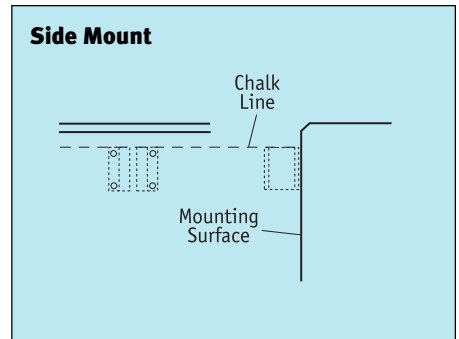
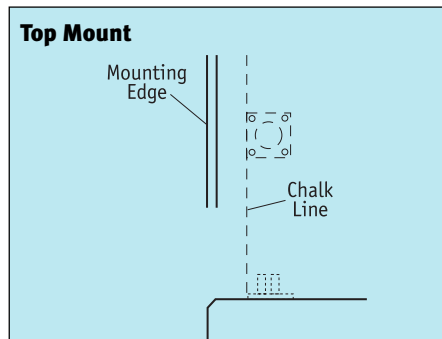
Snap a chalkline the required distance from the face of the wall.

### Top Mount

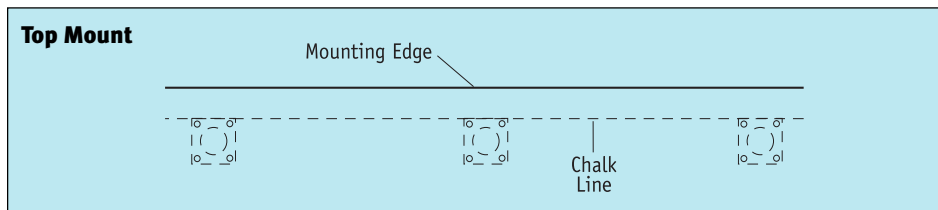
Line should be located one half the width of the base flange from the center line of the handrail.

### Side Mount

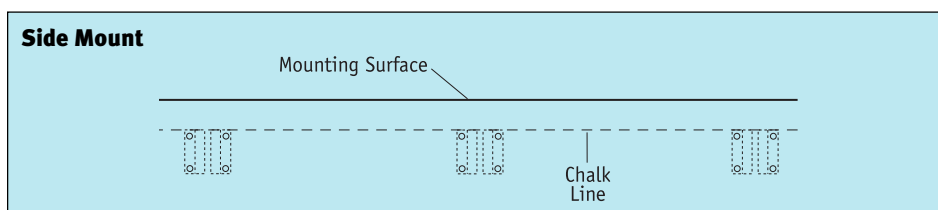
Line should be located at the required height of the top of the flange.



## Step 2



Flanges should be aligned along the chalk line and spaced the distance shown on project drawings. Drill holes in concrete using flange as a template and install anchors per manufacturers' recommendation.



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### Step 3

Determine post and mid-rail cut length as shown below and cut quantity required.

#### 1<sup>1</sup>/<sub>4</sub>" IPS

Top mount post cut length:  $H - 1\frac{7}{8}"$  (48mm)

Side mount post cut length:  $H - 1\frac{7}{8}"$  (48mm) +  $D + 5"$  (127mm)

Mid rail length:  $L - 1\frac{7}{8}"$  (48mm)

#### 1<sup>1</sup>/<sub>2</sub>" IPS

Top mount post cut length:  $H - 2"$  (51mm)

Side mount post cut length:  $H - 2"$  (51mm) +  $D + 5"$  (127mm)

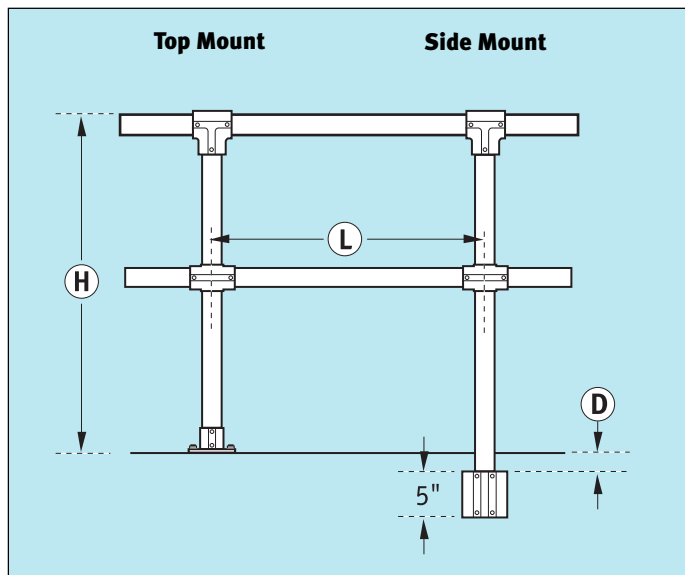
Mid rail length:  $L - 2"$  (51mm)

#### 2" IPS

Top mount post cut length:  $H - 2\frac{1}{2}"$  (64mm)

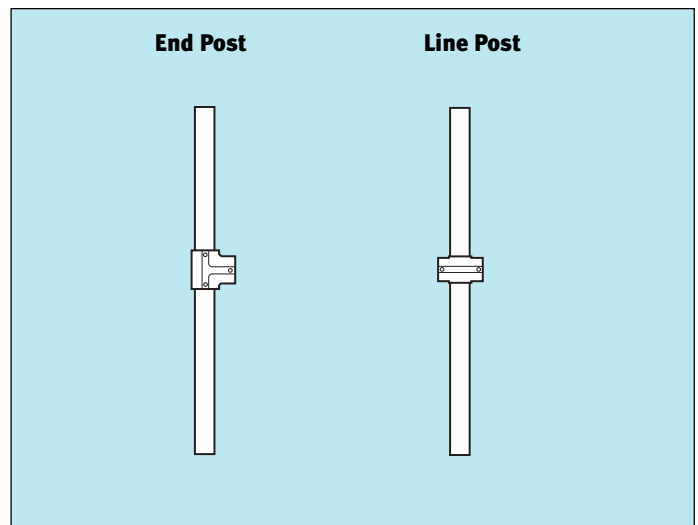
Side mount post cut length:  $H - 2\frac{1}{2}"$  (64mm) +  $D + 5"$  (127mm)

Mid rail length:  $L - 2\frac{1}{2}"$  (64mm)



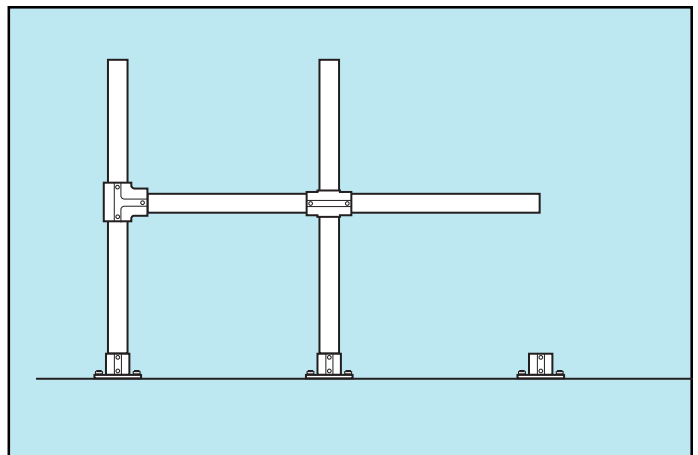
### Step 4

Slip mid rail fittings onto all posts; position properly and tighten set screws.



### Step 5

Starting at end or corner, place post into flange and insert appropriate mid rail. Install each subsequent post and mid rail throughout the length of handrail.



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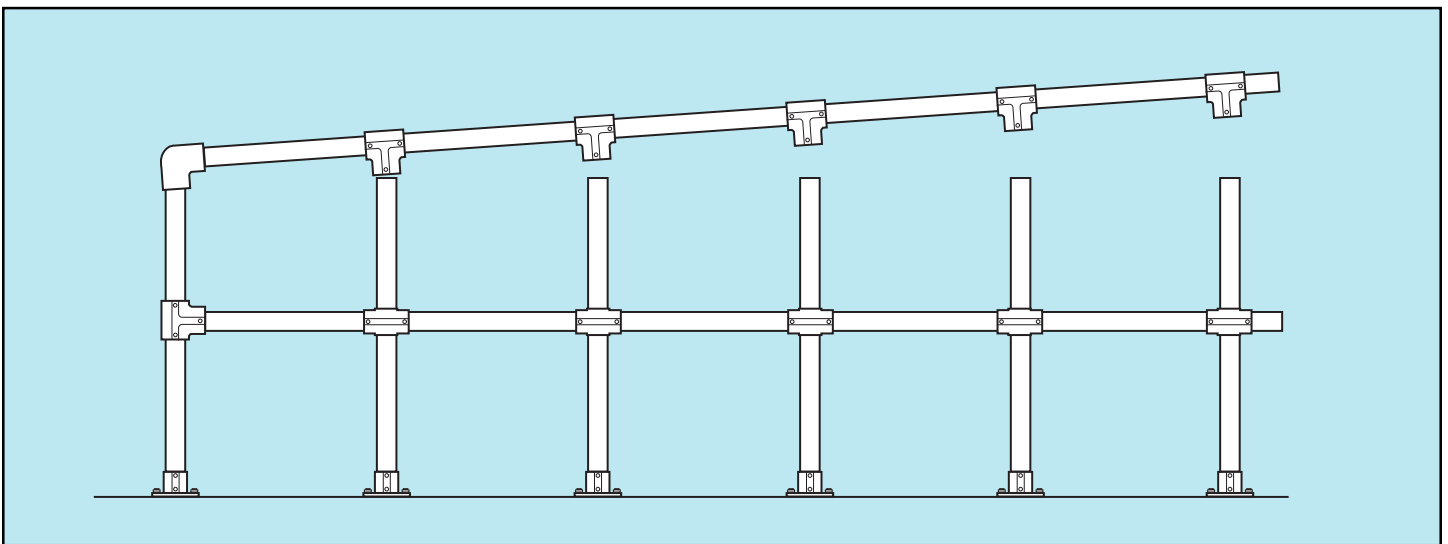
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### Step 6

Place the appropriate number of fittings on the top rail but do not tighten. Starting with the first post, attach the first top rail fitting and slide other fittings to the correct position.



### Step 7

Once the top rail is installed, plumb rail and tighten all set screws starting with flange and working up. Set screws should be tightened to approximately 16 ft. lbs. If torque wrench is not available, tighten set screw until it contacts pipe then tighten one more full revolution.

