

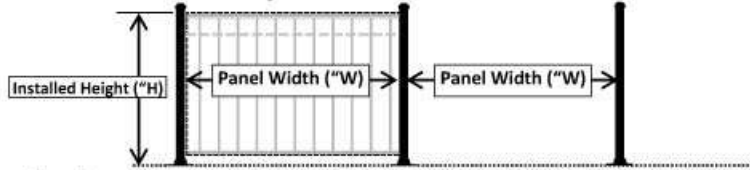


Install Your Summit™ and Fairfield™ Railing from Gilpin

❖ Tools you will probably need:

Level Hacksaw Tape Measure Drill/driver w/bits String or chalk line

❖ Determine location of newel posts.



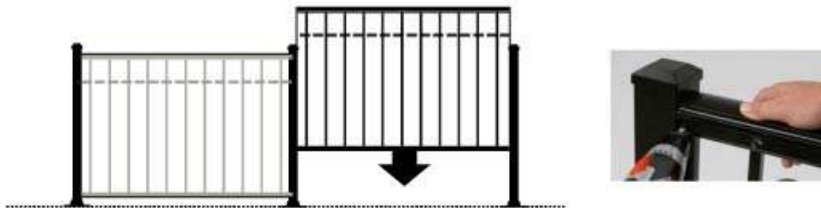
- Locate edge of flanges at least 2-1/2" from edges of surface.
- Mounting holes in flanges must be drilled to accommodate method of securing to surface.
 - Mount flanges with long side laterally perpendicular to railing for maximum stability.
- Posts must be plumb.
 - Shim if necessary with weather resistant shim materials.

❖ If using Installation Spindles:

- Measure up from surface to installed height ("H") on newel post. (36" or 42"). Mark
- Measure down 1-1/8". Mark
- Center Installation Spindle on post.
- Fasten Installation Spindle with top at mark with included screws.



- ❖ Slide rail panel down over Installation Spindles beginning at bottom rail so top rail rests on Installation Spindle.
- ❖ Secure rail to Installation Spindle with supplied screws on both sides of top and bottom rails.



❖ If using Swivel Fitting[s] (accommodates both vertical and horizontal angles)

- ❖ Install according to instructions included with Swivel Fitting set.



Swivel Fitting

OVER

❖ **If using fixed (Wall Mounted) Fitting**

- Determine height of mount (36" or 42"); attach to post (or wall) then determine height of lower mount(s); attach with provided screws.



❖ **Attach Rivet Covers**

- Align cover; cut to fit if necessary.
- Use rubber mallet and wood block to snap cover in place

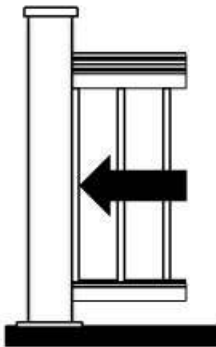


- ❖ Insure connections are tight.
- ❖ Touch up scratches with Gilpin Touch Up Paint.
- ❖ Step back and admire your installation

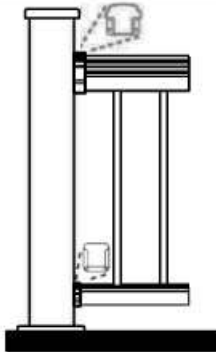




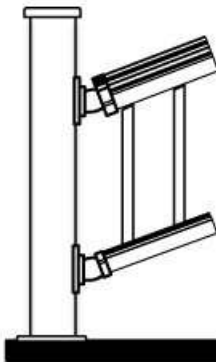
Installation Options for Gilpin Aluminum Railings



Installation Spindle – is screwed to post; best option when no angles are involved.



Fixed (wall) Mount Fitting – Mounts on post or other vertical surface. (Not available for Midway)



Swivel Fitting – Angles for stairs or horizontal angles. (See reverse for assembly instructions.)

How to Assemble Your Swivel Fitting from Gilpin Inc

Tools you may need:

▣ # 2 Phillips screwdriver ▣ 5/16" & 11/32" nut drivers ▣ 1/8" drill bit

- ❖ **Summit package contains**
 - 2 top and 2 bottom swivel fittings & bases
 - 24 #10 X 1" Hex Head Screw
 - 4 #8-32 Hex Head Lock Nut
 - 4 5/32" X 7/8" Fender Washer
 - 4 #8-32 X 1 1/4" Machine Screw
 - 4 #8 Flat Washer
- ❖ **Fairfield package contains**
 - 2 top and 4 bottom swivel fittings & bases
 - 36 #10 X 1" Hex Head Screw
 - 6 #8-32 Hex Head Lock Nut
 - 6 5/32" X 7/8" Fender Washer
 - 6 #8-32 X 1 1/4" Machine Screw
 - 6 #8 Flat Washer
- ❖ **Midway package contains**
 - 2 top and 2 bottom swivel fittings & bases
 - 8 #10 X 1" Hex Head Screw
 - 4 3/16" X 9/16" Flat Washer
 - 4 #8-32 X 1" Machine Screw
 - 8 #10 X 1/2" Hex Head Screw
 - 4 #8 Flat Washer



1. **Assemble Ball & Socket Fitting**
 - a. Insert bigger washer and #10 machine screw through back of base and through ball fitting.
 - b. Loosely fit machine screw with #8 washer and #8 lock nut from inside of ball fitting.
 - c. After determining desired angle, use Phillips screwdriver and 11/32" nut driver to tighten.

2. **Install Angle Attachment to Post (or other vertical surface)**
 - a. Temporarily place top and bottom angle attachment fitting to end of rail section.
 - b. Hold rail section and fittings at desired location to determine desired level of installation.
 - c. Mark flange holes at desired location.
 - d. Remove fittings from rail section and attach fittings to post with #10 X 1" Hex Head Screw.



3. **Attach Railing to Angle Attachment**
 - a. Insert railing into fittings.
 - b. Pre-drill sides of fittings through cross bar of railing with 1/8" drill bit.
 - c. Install #10 X 1/2" screw (Midway) or #10 x 1" screw (Summit) through pre-drilled hole.

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EASTERN REGIONAL OFFICE

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**Load Testing of Hand Rail**

Tested For: Kingsford Products Inc.
 310 Baltimore-Somerset Road
 P.O Box 75
 Baltimore, OH 43105
Date: April 17, 2003

PO: PAF
Lab No: 030344
Date Received: 4/15/03
Date Tested: 4/15/03
Work Order: G1623 Rev. 1

On April, 17, 2003, a representative of NDT Group Physical Testing Department, Mr. Pete Merther, was at the Kingsford Products Baltimore, OH facility to conduct load testing of hand rail products identified as below in accordance with BOCA Section 1067.7.1

The testing was witnessed by Mr. Roland Harrison and Mr. Jim Barber of Kingsford Products.

The following tests were performed using a come-along and a calibrated load cell on the railing assembly. The railing was assembled using Kingsford Products Installation Instructions in a concrete floor.

1. 200 pound concentrated load at center in the vertical down direction
2. 50 pound / foot uniform load in the vertical down direction
3. 200 pound concentrated load at center in horizontal direction
4. 50 pound / foot uniform load in the horizontal direction

Sample ID: 6' Summit 4" spacing w/ spindle attachments both sides 42" installed height. 4-1/4" wedge anchors each side embedment

<u>Load Case</u>	<u>Comments</u>
1. 200 pound concentrated load at center in the vertical down direction	No Visible Damage
2. 50 pound / foot uniform load in the vertical down direction (300 pounds)	No Visible Damage
3. 200 pound concentrated load at center in horizontal direction	No Visible Damage
4. 50 pound / foot uniform load in the horizontal direction (300 Pounds)	No Visible Damage

Meets Requirements of BOCA

Respectfully Submitted,

J. Peter Merther (PE)

J. Peter Merther, PE
 NDTG Mechanical

Testing was performed in accordance with accepted industry practices as well as the test methods referenced. NDTG has no direct knowledge of the origin, sampling procedure, or condition of the samples, and makes no claim as to the suitability for that use of the material. This test report applies only to those items tested. This report shall not be reproduced except in full without the written consent of NDTG.