



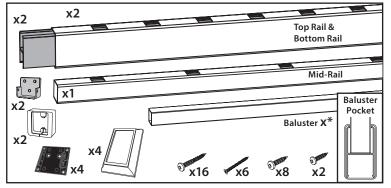
**NOTE: If Standard Rail bracket trim ring** will not snap on black mounting bracket, make sure bracket to post mounting screws are not over-tightened.



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# LEVEL INSTALLATION GUIDE

# MISSION INSPIRED (M.I.) STANDARD & CONTOUR VINYL RAILING



# **LEVEL Standard Vinyl (M.I.) Railing Kits Include:**

2 ea. - 2" x 3-1/2" Standard Vinvl Rail

1 ea. - 1-3/4" x 2-1/4" Mid-Rail

2 ea. - Standard Rail Aluminum Insert

4 ea. - Standard Rail Mounting Bracket (Bracket and Trim Ring)

2 ea. - Mid-Rail Mounting Bracket (Bracket and Trim Ring)

Stainless Steel #2 Square Drive Mounting Screws

\*Vinyl Balusters - 6' Level Kit - 13 • 8' Level Kit - 19 • 10' Level Kit - 23



# Top Rail Mid-Rail **Bottom Rail** Baluster

# **LEVEL** Contour Vinyl (M.I.) Railing Kits Include:

1 ea. - Contour Vinyl Top Rail

1 ea. - 1-3/4" x 2-1/4" Mid-Rail

1 ea. - 2" x 3-1/2" Standard Vinyl Bottom Rail

1 ea. - Contour Rail Aluminum Insert (Top Rail)

2 ea. - Mid-Rail Mounting Bracket (Bracket and Trim Ring)

1 ea. - Standard Rail Aluminum Insert (Bottom Rail)

2 ea. - Contour Mounting Bracket (Bracket and Trim Ring)

2 ea. - Standard Rail Mounting Bracket (Bracket and Trim Ring)

Stainless Steel #2 Square Drive Mounting Screws

\*Vinyl Balusters - 6' Level Kit - 13 • 8' Level Kit - 19 • 10' Level Kit - 23

# STEP 1 • POST/MOUNTING SURFACE PREPARATION

Plumb post/mounting surface. Slide vinyl post sleeves and post trim ring over posts.

# STEP 2 • BOTTOM RAIL & TOP RAIL BRACKET INSTALLATION

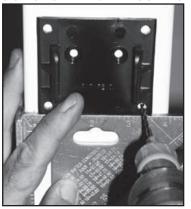
A) Bottom Rail Mounting Bracket - Determine height of bottom rail (2" for 42" Railing Height). Make a pencil mark at bottom of the bottom rail on the post. Measure up 3/8" above previous mark, then square and center the bottom of the black mounting bracket. Mark screw holes in the four (4) corners of the bracket and then pre-drill four (4) 5/32" holes. Screw the bracket base into place with four (4) #12 x 1-1/4" pan head screws. Repeat on opposite post.

#### B) Top Rail Mounting Bracket -

Measure from bottom of black mounting bracket up and mark with pencil. Please use the following measurement in accordance with product style and height: 42" Standard Rail = 38-1/4". This will be the mounting mark for the bottom of the top black mounting bracket. Square and center the top black mounting bracket on mark and pre-drill four (4) 5/32" holes. Screw into place using four (4) #10 x 1-1/4" for Standard Railing or four (4) #10 x 2" pan head screws for Contour Railing. Repeat on opposite post.



DO NOT OVER-TIGHTEN SCREWS





STEP 2A STEP 2B STEP 2B

# STEP 3 • INSTALL BOTTOM RAIL

A) Measure the inside span between black mounting brackets for bottom rail. (Make sure you have equal and maximum amount of spacing between baluster pocket and post on each end.) Cut bottom rail to length squarely with a power miter box or hacksaw. You may cut vinyl and aluminum insert at same time.\* B) With bottom rail cut to length, slide bracket trim ring onto each end of bottom rail, flat side towards end, facing post. (TIP: You may want to cut

blocks to proper height for rail to rest on) Set bottom rail into place and align bottom rail with bottom rail height bottom mark from Step 2A.

C) With the bottom rail in place, insert one (1) #10 x 1" self-tapping pan head screw through one of the holes along the side of the black mounting bracket, through vinyl rail and into aluminum insert. Only one (1) screw per side is needed. Snap bracket trim ring onto black mounting bracket. Repeat on opposite post.

NOTE: If Standard Rail bracket trim ring will not snap on black mounting bracket, make sure mounting screws (bracket to post connection) are not over-tightened.









STEP 2C STEP 3A STEP 3A STEP 2B



# STEP 4 • MID-RAIL INSTALLATION

A) Cut mid-rail to length - Measure distance between posts. Deduct 3/4" from total length to allow for mounting brackets and mark mid-rail. Ensure there is equal & maximum distance from baluster holes on both ends. Cut mid-rail to length.

B) Mid-rail bracket installation - Install 2 short balusters per rail end and install mid-rail. Place mid-rail brackets on end of rail and mark bracket position on post. Remove mid-rail and Install bracket with three (3) #8 x 1-1/2" screws. Repeat on opposite post.

C) Install balusters and mid-rail - Insert all balusters into routed pockets, place mid-rail into brackets and install two (2) #10 x 3/4" self-drilling screws through holes in both sides of each bracket, securing mid-rail in place. Carefully snap mid-rail bracket covers over brackets.

#### MID-RAIL INSTALLATION









STEP 5 • INSTALL BALUSTERS & TOP RAIL **A)** Installing Fairway® Standard Vinyl Railing (2" x 3-1/2") - Measure the inside span between black mounting brackets for top rail, deduct 1/4" from Step 4C mark on each end of rail to allow for black mounting bracket. Installing Fairway® Contour Vinyl **Railing** - Measure the inside span between posts. Mark top rail with appropriate measurement. Make sure distance from baluster pocket to post on each end is the same for both top and bottom rail. Cut top rail to length (cut both top rail and aluminum insert to length at the same time with a power miter box or hack saw). Slide bracket trim ring on both ends of top rail, flat side towards end, facing post. From one end, begin to insert top of balusters into corresponding pocket holes and be sure rail slides down into black mounting brackets side guides.

STEP 4B

**B)** Once all balusters are in place, the top rail will rest in the black mounting bracket. Insert one (1) #10 x 1" self-tapping pan head screw through one of the holes along the side of the black mounting bracket, through vinyl rail and into aluminum insert. Only one (1) screw per side is needed. Slide bracket trim ring onto black mounting bracket. Repeat on opposite post.

#### You are now ready to install your post cap.

Apply a small amount of PVC glue or silicone caulk to the inside lip of the post cap and mount in place.

Check all local building codes for design load requirements for your railing application. Fairway Vinyl Railing is manufactured to the standards outlined in ASTM F964 and has been tested according to AC174-09 criteria and is approved to meet the requirements for Guardrails as outlined for pertaining IRC (Residential) and IBC (Commercial) applications as documented in the Code Compliance Research Report, CCRR-0153.





**STEP 5A** 

STEP 5B





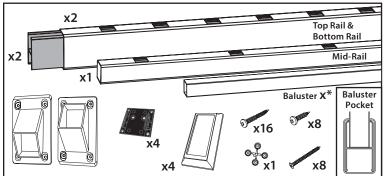




NOTE: If Standard Rail bracket trim ring will not snap on black mounting bracket, make sure bracket to post mounting screws are not over-tightened.

# STAIR INSTALLATION GUIDE MISSION INSPIRED (M.I.) STANDARD & CONTOUR VINYL RAILING

Check all local building codes for design load requirements for your railing application. Fairway Vinyl Railing is manufactured to the standards outlined in ASTM F964 and has been tested according to AC174-09 criteria and is approved to meet the requirements for Guardrails as outlined for pertaining IRC (Residential) and IBC (Commercial) applications as documented in the Code Compliance Research Report, CCRR-0153.



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# **STAIR** Standard Vinyl Railing Kits Include:

2 ea. - 2" x 3-1/2" Standard Vinyl Rail w/Aluminum Insert

1 ea. - 1-3/4" x 2-1/4" Mid-Rail

2 ea. - Mid-Rail Stair Brackets

4 ea. - Standard Rail Stair Mounting Bracket (Bracket and Trim Ring)

1 ea. - Pack S.S. Mounting Screws

\*Vinyl Balusters - 6' Railing Kit - 13 • 8' Railing Kit - 19

# **STAIR** Contour Vinyl Railing Kits Include:

1 ea. - Contour Vinyl Top Rail w/Aluminum Insert

1 ea. - 2" x 3-1/2" Standard Vinyl Bottom Rail w/Aluminum Insert

1 ea. - 1-3/4" x 2-1/4" Mid-Rail

2 ea. - Mid-Rail Stair Brackets

2 ea. - Contour Rail Stair Mounting Bracket (3/16" S.S. Pins & Screw Plugs)

2 ea. - Standard Rail Stair Mounting Bracket (Bracket and Trim Ring)

1 ea. - Pack S.S. Mounting Screws & Pins

\*Vinyl Balusters - 6' Railing Kit - 13 • 8' Railing Kit - 19









STEP 2

STEP 3A

STEP 3B

#### **STEP 1 • POST/MOUNTING SURFACE PREPARATION**

Be sure post is plumb. Slide vinyl post sleeve and post trim ring over post.

### **STEP 2 • BOTTOM RAIL & BRACKET PREPARATION**

A) Place one end of the bottom rail on deck surface and the other end on the last stair tread nosing. (Baluster pockets up.)

**B)** Measure for maximum and equal distance between baluster pockets at both ends of the bottom rail. Mark a vertical line on bottom rail where post and rail meet. Repeat on opposite end of rail.

**C)** Deduct 1/4" from each rail end to allow for black Standard Rail mounting bracket. Cut both bottom rail and aluminum insert to length at the same time with a power miter box or hack saw.\*

## **STEP 3 • INSTALL BOTTOM RAIL, BRACKET & TOP RAIL PREPARATION**

**A)** Slide black mounting brackets onto the ends of the bottom rail and center on end of rail. Place rail between posts at proper height off deck and bottom tread nosing. Mark the top of black mounting brackets on post. (Check with local building code for height and opening requirements.)

**B)** Remove the black mounting bracket from the ends of bottom rail, square and center brackets with the mark on the posts. Pre-drill four (4) 5/32" holes in the four (4) corners of the black mounting bracket. Install black mounting brackets with four (4) #12 x 1-1/4" pan head screws.

C) Slide bracket trim rings on end of rail, flat side towards mounting surface. (TIP: If pitch is greater than 32° cut along marks on inside of all **Standard Rail** bracket trim rings) Set bottom rail into black mounting brackets with rail centered. Insert one (1) #10 x 1" self-tapping pan head screw through black mounting bracket into bottom rail. Only one (1) screw per side is needed. Snap bracket trim ring onto black mounting bracket. Repeat on opposite post.

## MISSION INSPIRED (M.I.) STAIR INSTALLATION GUIDE CONT'D...

#### STEP 4 • INSTALL SHORT BALUSTERS, INSTALL MID-RAIL & MARK TOP RAIL

A) Insert one short baluster into the baluster pocket closest to post at each end of stairs (top and bottom). Set mid-rail in place over balusters. Measure the distance from baluster to post at bottom rail and adjust the mid-rail to match. Mark a vertical line on mid-rail where post and rail meet. Repeat on opposite end of rail. Cut mid-rail to length.

**B)** Install all short balusters into appropriate baluster pockets. Slide mounting brackets on each end of mid-rail. Set mid-rail between posts, center mounting brackets on post. Install four (4) #8 x 1-1/2" screws in mounting brackets. NOTE: in some cases, it may be necessary to cut out some of the mounting bracket flange if covering baluster holes. Snap screw covers over screw holes.

C) Insert one long baluster through mid-rail and into bottom rail baluster pocket closest to post at each end of stairs (top and bottom). Set top rail in place over balusters. Mark a vertical line on top rail where post and rail meet. Repeat on opposite end of rail.

#### **STEP 5 • INSTALL TOP RAIL FOR STANDARD VINYL RAILING**

A) (Skip STEP 5 if using Contour Rail) Deduct 1/4" from Step 4C mark on each end of rail to allow for black mounting bracket. Cut both top rail and aluminum insert to length at the same time with a power miter box or hack saw.\*

B) Slide black mounting brackets on each end of top rail. Place top rail between posts and insert two (2) long balusters into top rail. Mark black mounting bracket position on post. Remove top rail and black mounting brackets from end of top rail, square and center brackets with the mark on the posts. Pre-drill four (4) 5/32" holes in the four (4) corners of the black mounting bracket. Install black mounting brackets with four (4) #12 x 1-1/4" pan head screws.

C) Insert all long balusters through mid-rail and into bottom rail baluster pockets. Slide bracket trim rings on each end of top rail, flat side towards mounting surface. Set top rail into black mounting brackets with rail centered. Insert one (1) #10 x 1" self-tapping pan head screw through black mounting bracket into top rail. Only one (1) screw per side is needed. Snap bracket trim ring onto black mounting bracket. Repeat on opposite post.

**D)** Make sure all four bracket trim ring rings are snapped over black mounting brackets.

#### E) Skip to STEP 10

# **STEP 6 • CUT CONTOUR TOP RAILS**

With both ends of top rail marked from **STEP 4C**, place the bottom (baluster pocket side) against the back stop of the miter box. Match up miter cut with line marked on top rail and cut top rail to length. Cut both aluminum and vinyl at the same time.\*

### **STEP 7 • CUT CONTOUR STAIR BRACKET**

A) Measure the distance from the end of rail to the baluster pocket (so Contour Stair Bracket will not cover baluster pocket). Mark bottom of Contour Stair Bracket with this measurement. Make sure mounting screws are facing towards balusters.

B) Slide Contour Stair Bracket onto a piece of scrap contour rail and cut at same angle as top rail. (TIP: Use another Contour Stair Bracket to hold railing level in miter box for a correct angle cut.)

### STEP 8 • INSTALL 3/16" S.S. PINS IN CONTOUR STAIR BRACKET

A) 3/16" S.S. Pins keep rail from pulling out of Contour Rail Bracket under load. With both Contour Stair Brackets cut to match top rail, slide Contour Stair Bracket onto top rail and hold flush with end of top rail. Mark both sides of Contour Stair Bracket.

B) Remove Contour Stair Bracket. Measure from marks toward the end of the top rail 1/2" and down 1/8" from bottom of bead on the side of top rail. Where the lines intersect, drill a 7/32" hole through the vinyl and aluminum (make sure aluminum is flush with vinyl) on both sides of top rail. Slide Contour Stair Brackets onto top rail, insert 3/16" S.S. pin and engage pin into Contour 3.5 Stair Brackets.

#### **STEP 9 • INSTALL BALUSTERS & CONTOUR TOP RAIL**

Install all balusters into bottom rail. Start at the bottom of stair run and one by one insert balusters into top rail. Set rail in place and center on mounting surface. Insert two (2) #10 x 4" pan head screws into Contour Stair Bracket. While keeping Contour Stair Bracket square and centered on mounting surface, start screw enough to mark mounting surface. Push top rail to one side and predrill a 5/32" hole at same angle as mounting screw. Set rail in place and install mounting screws. Insert fill plugs, two (2) per Contour Stair Bracket, using PVC glue or silicone caulk to hold in place.

## **STEP 10 • INSTALL POST CAP**

Cut post to desired height and apply a small amount of PVC glue or silicone caulk to the inside lip of post cap and install.

#### **MID-RAIL**





STEP 4B





STEP 7A

STEP 7B





STEP 7B

STEP 8B





**STEP 8B** 

STEP 8B





STEP 9

STEP 10

6.5 7.0 7.5 8.0 8.5 9.0 9.5 10.0 10.5 11.0 11.5 12.0 12.5 13.0 13.5 14.0 14.5 15.0 22 21 4.0 8 4.5 8 5.0 🕏 5.5 8 6.0 6.5 7.0 7.5 8.0 8.5 9.0 44 42 

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