



Residential Stair Railing Assembly Instructions

READ ALL INSTRUCTIONS COMPLETELY BEFORE STARTING INSTALLATION:

It is the responsibility of the installer to meet all code and safety requirements, and to obtain all required building permits. The railing installer should determine and implement appropriate installation techniques for each installation situation. VISTA Railing Systems Inc, its distributors and dealers shall not be held liable for improper or unsafe installations. VISTA Railing Systems posts must always be secured to the sub structure and should never be attached to only the surface material (ie deck board). Failure to follow all of these instructions could result in serious injury or death.

Tools & Materials Required:

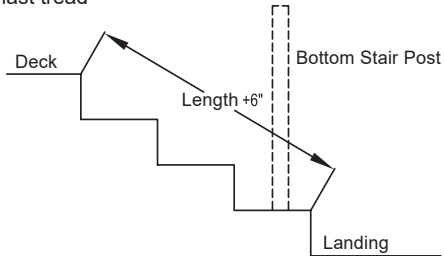
Handsaw 10" Miter Saw with thin (Kerf) Blade
Electric Drill - 1/8" and 3/16"
Drill Bits 3/8" Hex Head Driver
Torx Screwdriver - T25 drive
Robertson Screwdriver - #2
Measuring Tape
Rubber Mallet (optional)

STEP 1: Measuring Stairs

To measure stair length use the following:

- If bottom post is placed on last tread

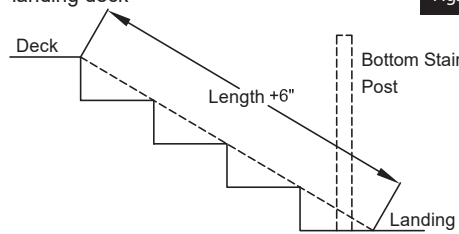
Fig.1



Stairs: When calculating the material needed for stairs, use the following guidelines (when the bottom post is to sit on the last stair tread)

- If bottom stair post is placed on landing deck

Fig.2



Stairs: When calculating the material needed for stairs, use the following guidelines (when the bottom post is to sit on the landing)

STEP 2: Stair Assembly

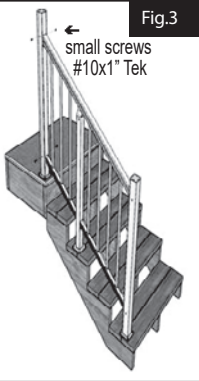


Fig.3

Install top post at edge of deck. (see Fig. 3), utilizing appropriate post to deck fasteners that meet or exceed local building department requirements.

Install bottom post so that when bottom rail is placed in the holes provided there is a consistent space between underside of bottom rail and edge of stairs. Guard rails shall not be less than: 900mm (35-7/16") high for Canada and 34" - 38" high for USA measured vertically from the top rail/guardrail to the nosing. Place top and bottom rails into the holes in the posts. Using screws provided, fasten top and bottom rails with #10 x 1" Tek screws. For longer runs, a mid post should be placed in the run.

NOTE: The top and bottom rails should go inside the top and bottom posts by 1½". Install stair pickets in the same manner as in Fig. 7 (step 4).

STEP 2A: Post Bracket Attachment

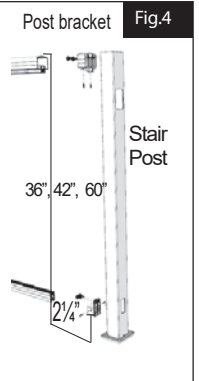


Fig.4

Install top handrail post bracket with top of bracket at 36½" or 42 ¼" above deck level. (see Fig.4)

Install bottom rail post bracket 2¼" above deck level, measured from bottom of bracket.

STEP 2B: Stair Bracket Attachment

Install stair bracket as required. (see Fig. 5, 5A, 5B)

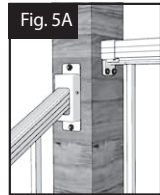
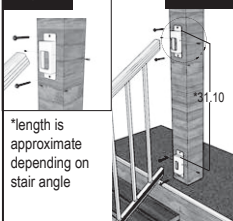


Fig. 5B



*length is approximate depending on stair angle

NOTE: Use of stair bracket package: may be used on existing posts or columns to begin or end a stair. (see Fig. 5, 5A, 5B).

Guardrails shall not be less than: 900mm (35-7/16") high for Canada and 34"-38" high for USA, measured vertically from the top rail/guardrail to the nosing.

STEP 3: Stair Rail Splice Assembly

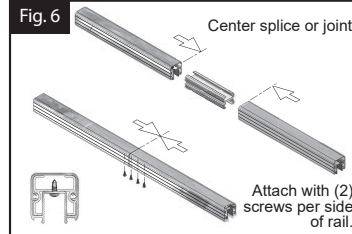


Fig. 6

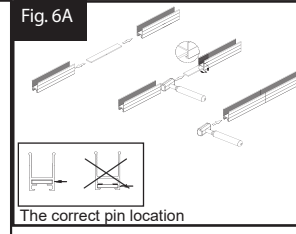


Fig. 6A

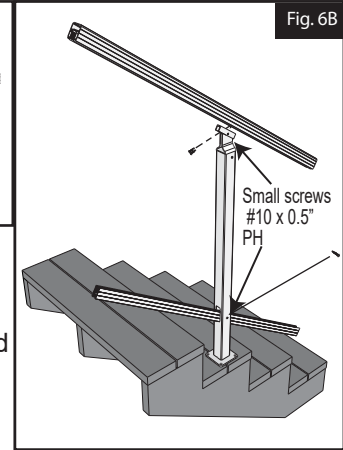


Fig. 6B

A stair mid post may be placed in the run (see Fig. 6B), utilizing approved mounting bolts/fasteners that meet or exceed local building department requirements (these are not included with posts). A mid stair post and splicing of stair rails will only be necessary when your run is longer than 96". You will need to remove and cut the gasket where the mid stair pivot sits to ensure the rail fits over top of the mid stair post. Insert (provided) fasteners into pivot head and outside of the post to secure railing. (see Fig 6B)

STEP 4: Stair Picket Installation

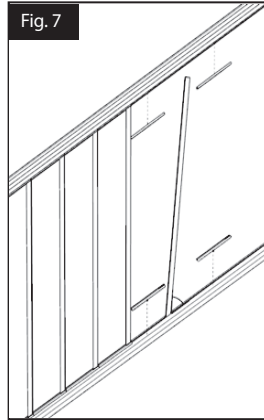


Fig. 7

Starting at one end of a section, snap spacers over openings of top and bottom rail (use rubber mallet if necessary). Install picket as per Fig. 7 and repeat procedure until last 4 pickets are left. Install remaining pickets as a group (without spacers in between). Spread out and snap in remaining spacers.

NOTE: The last spacer will likely have to be cut to size. Picket spacing should not exceed 4".

STEP 5: Handrail (if necessary)

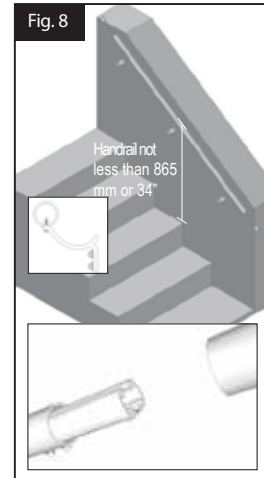


Fig. 8

Ensure adequate backing is provided when mounting handrail brackets. Handrails should be 865mm (34") to 1070mm (42") in Canada or 34" to 38" in USA measured, vertically from the top of the handrail to the tread nosing.

Brackets should be spaced no more than 48" apart. Attach handrail pipe using small Tek screws provided. Handrail pipe should start and end at the edge of the top and bottom stairs. (see Fig. 8)

NOTE: Please ensure to check local building code requirements for your application. If handrail needs to be longer than 8 ft it can be lengthened using a handrail splice (included) and additional length of handrail pipe.

Secure splice on underside of handrail pipe using small Tek screws provided. (see Fig. 8)