



Stairs Handrail Kit

Installation Guide

Need help? Text us the picture of your problem

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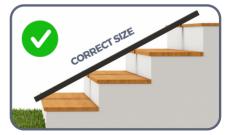
Wrong Size?

No Returns Needed!

Contact us

Delivered in 2 DAYS







Text or Call Us

(800) 420-0432

Can Accept Text Photos

Installing Multiple Rail Kits?

We offer **FREE** help & drawing to make it easier to **connect multiple rail kits.**

We want to help you save time and effort

Contact us before you start!

You made the right choice of railing!



Cost-Effective



Quick to Install



Safe & Durable



Easily Extendable (Modular)



Time Required

Ground attachment:

wood - 20+ minutes concrete - 60+ minutes



An electric drill/hammer

An impact drill is preferred (although not required) for installing the concrete bolts for concrete steps, lag screws for wooden steps, or other ground attachments.



We've made it easy for you to install your post!



Scan this QR code for a detailed video explanation of how to install your new handrail correctly.

Means and Methods Disclaimer

In no event shall CR Handrail have any responsibility, control over, charge of, responsibility, or liability for the means, methods, techniques, sequences, or procedures, or for safety precautions in connection with the installation of the railing, since these are solely CM/GC's, Subcontractor's, and Owner's responsibilities.

Each installation site differs widely ranging from the construction & condition of attachment points, local building & safety code, local construction code, and local means & methods.

CR Handrail's installation guide (whether it be in text, illustration, video or in support discussion) constitute for ideal installation condition. There is no ideal installation in real life. There is no substitution for consulting a local licensed contractor, architect, engineer, nor code inspector.

CR Handrail's installation hardware and tools are provided as building material and does NOT constitute as the specific nor final installation hardware. Once again, you and your installer must make the final on-site determination to the specific means and methods of installation appropriate for your installation.



Masonry Tools & Hardware Explained



5/16" (8mm) Anchor Bolt



5/16" (8mm) Masonry Drill Bit



*SDS+ available upon request

Diamond Core Drill Bit



For hard stone
*available upon request

Note: This will be a tight fit. In fact, the specification calls for the drill bit and anchors to be the same size. Some installers use a 38" drill bit to make the installation easier, and other installers wiggle the drill bit to bore the top of the hole slightly bigger. (We are aware of the tight fit and we must only recommend using our masonry drillbit without wiggling).

WARNING

The strength of the anchor is dependent on the hole size & concrete integrity. A hole that's too big or concrete that's not up to standard grade can make the anchor wiggle or possibly come out. This is what can cause a rail to fail & fall over.

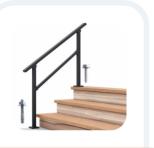
Installing Your

Handrail

1-2-3 Parts







Secure your Handrail

Post to Ground Attachment



Part

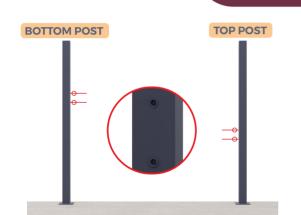
Idenitify the Bottom Post and Top Post.

The holes on the Bottom Posts are higher compared to the holes on the Top Post.

Assemble Your Handrail







Make sure to correctly position the posts.

Attach Bracket to Post



(a) Use the hex bit & bit extension

(b) Screw on 4x flat-end screws





Note: 2 Screws per bracket



Attach Top Rail (Larger) Brackets and End Caps

(a) Attach Larger Brackets using 4x Flat-end screws (2 screws per bracket)



Note: Both top rail brackets face same direction

(b) Insert End Caps



The handrail will be unsecured until the end. We will loosely position the handrail first to mark holes for post-installation.



Common Mistake

Reversed Post (Middle Rail too Short)

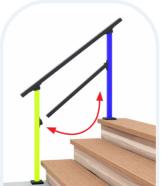
Top Rail too long Middle Rail too short

The top or middle rail is too short?

You have reversed the post.

To fix:
1.) flip the bracket's direction
2.) swap the post (see step 1.1)









Part

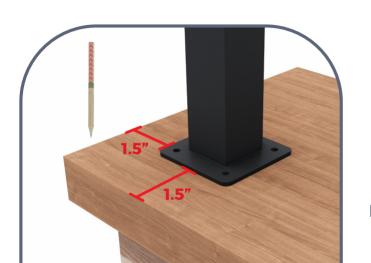
Post to Ground Attachment

Position and Mark the Holes

FOR CONCRETE

Please adhere to local & statewide building code. Recommended distance from the edge is based on standard-grade concrete (2500 psi).

If your concrete is 'highstrength' concrete, the edge distance can be reduced. (See ICC Chapter 19, Table 1908.2)



Post should be at least 1.5" (4cm) away from edges.

Ensure the post baseplate is parallel with edges.

Position and Mark the Holes

Smaller drill bit (Please go straight to Step 2.5)



Larger drill bit (Continue to Step 2.3)



Use the CR Handrail pencil to measure the depth of the hole with the flat end of the pencil.

Note: This is only for rough measurements. This is to endure the hole is deep enough. For Wood, please go straight to Step 2.5 Tip: holes must be deep enough or will have a serious issue.

Hole NOT deep enough Keep drilling deeper



PERFECT DEPTH



Hole TOO DEEP! Careful NOT to insert Anchor too deep





Once the holes are made and depth verified, hammer the anchors into the holes.



Tip: Hammer the anchor with 2 washers and 2 nuts (with nut at the very tip) to prevent over insertion.

Periodically Double Check!

Put the post onto the anchor and physically verify the washer and nut has only enough thread to for the full height of the nut to screw on.



Secure Post to Ground



Use the nut socket & bit extension



What if Post Not Level?

If ground is not level, use included extra washers to shim the baseplate





FOR WOOD



- 1. Position the posts (along with the complete railing) over predrill holes.
- 2. Install a washer & lag screw, one-by-one
- 3. When all are installed, doublecheck each of them again, to ensure all are tightened.

Note: If your drill has a hammer (or impact) function, enable it.

FOR CONCRETE



- 1. With all the nuts & washers removed, put the posts onto the anchor bolts (along with the rest of the rail). Install a nut and washer washer on each anchor bolt, one-by-one.
- 2. Hand-tighten a nut and washer over each anchor bolt.
- 3. Use the electric drill to tighten the nut (turn off hammer or impact driver function).

Part

Secure Your Handrail



Using the included self-drilling screws, with some force applied (careful for your fingers as you hold the screws in place), drill the screws through the pre-made holes on all the brackets into the metal railing. This will lock the metal in place.







BIT EXTENSION

8X SELF-DRILLING SCREWS



Tip: Pre-drilling hole is NOT necessary. The self-drilling screw will make a hole when force is applied. If you must, use a small drill bit to make a pilot hole.

Attach Post Covers

For a seamless look, simply attach the Post Covers to hide the base plate and hardware









Explore CR Handrail's **Brackets and Covers**



SCAN ME



Rail kits for your home's every need!

Safety doesn't end with the staircase. Explore our range of rail kits!







We've doubled our support from 5 years to 10, showing our commitment to you and the trust we have in our railings for outdoor steps.

To view our full warranty policy, visit: www.fencerail.com/warranty





Need help?

- Connect Multiple Railings
- Technicl Drawings
- Complicated Installations
- Installation Error
- Missing Parts

Text with Photos (800) 420-0432





A heartfelt message from the owners of CR Fence & Rail

Chi is an architect and Richard is in real estate construction. With the combined knowledge and expertise, Chi & Richard believe they can provide the best commercial grade railing product that can be installed by anyone. They want to take the time to say thank you. If you got the time, Chi, Richard & the *CR Fence & Rail* team love to see a photo or video of your installation!

- Chi & Richard from CR Handrail

Your picture and video post helps those who are worried about the installation.





Susanna P.

★★★★★ I was worried

Reviewed in Canada on October 12, 2022 Size: 4 Steps | Verified Purchase

I was a little worried that the handrail would be difficult to install. It comes with everything you could possibly need to install the railing. Hats off to the people who put the kit together.

2 people found this useful



Help Us Make a Difference:

SAFETY FOR ALL!

How can we make it easier for you?



Missing Parts?

www.fencrail.com/parts

Support



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