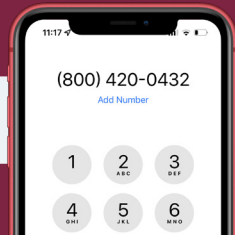




CR Handrail

Stairs Handrail Kit

Need Help?
Text us a picture of your problem!



You made the right choice of handrail!



Cost-Effective



Safe & Durable



Quick to Install



Easily Extendable
(Modular)



Time Required

Rail Assembly:
20 minutes

Ground Attachment:
Wood- **20+ minutes**
Concrete- **60+ minutes**



Tools Required

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.

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.

Following CR Handrail's instruction does NOT constitute as proper installation as you and your installer must make the final means & method determination. Improper installation can lead to failure of rail system which can cause serious injury.



Please make sure the hardware and tools we provided will be right for your install (READ means & methods disclaimer). IT IS POSSIBLE YOU NEED DIFFERENT HARDWARE & METHODS. Please take your time to do your installation. If you are unsure or uncomfortable with the installation, we highly recommend hiring a licensed and bonded contractor.

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



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

Installing Your Handrail in 1-2-3 Parts



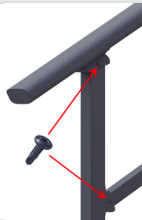
Part 1

Assemble Your
Handrail



Part 2

Post to Ground
Attachment



Part 3

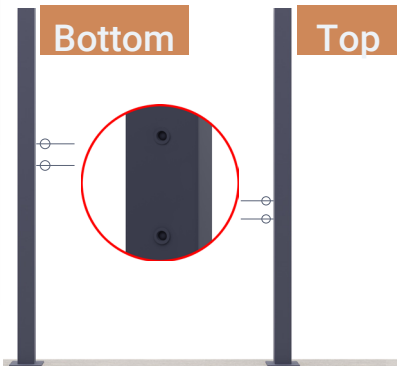
Secure Your
Handrail



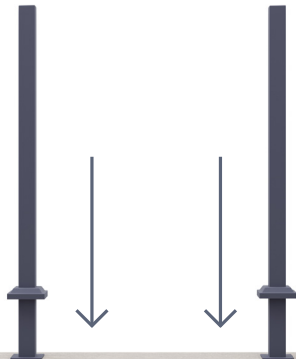
Part 1

Assemble Your
Handrail

1. Determine Top v/s
Bottom Post



2. Put Post Cap On

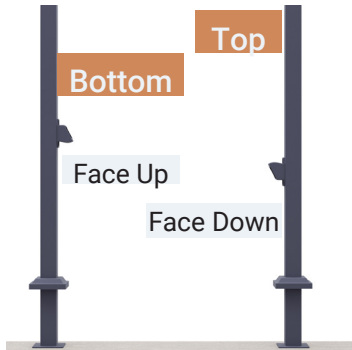




Part 1

Assemble Your
Handrail

3. Attach the two Post
(Smaller) Brackets



Note the direction of brackets

3.(a) Use the hex bid &
bid holder

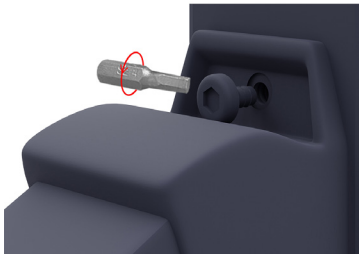




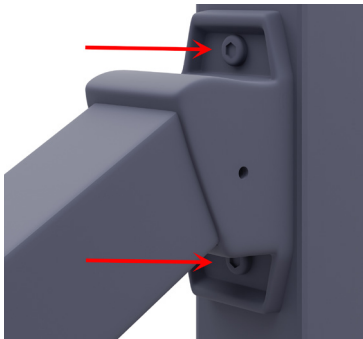
Part 1

Assemble Your
Handrail

3.(b) Screw on 4x
flat-end screws



Note: 2 screws per bracket





Part 1

Assemble Your
Handrail

4. Attach Top Rail
(Larger) Brackets



5. Insert End Caps



Note: Both top rail brackets face same direction



Part 1

Assemble Your
Handrail

6. Loosely Assemble Handrail Flat on Ground

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

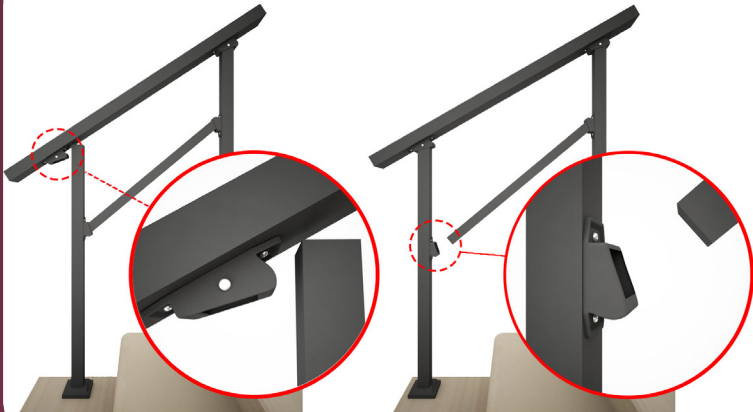




Part 1

Assemble Your
Handrail

Rail to Short? You Made a Mistake!

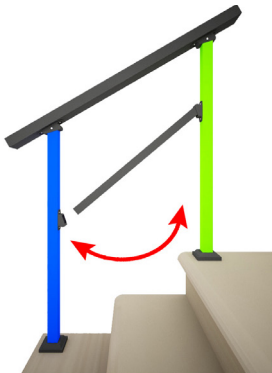




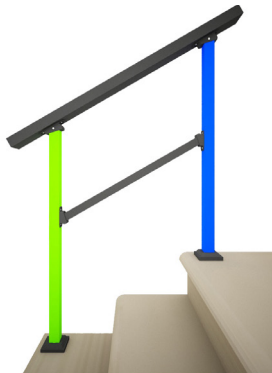
Part 1

Assemble Your
Handrail

To Fix Mistake



REVERSED POST PLACEMENT



CORRECT POST PLACEMENT



Part 2

Post to Ground Attachment

1. Position Onto Location



2. Mark the Holes

Post should be at least 1.5" (3.8cm) away from edges. Ensure the post baseplate is parallel with edges.



Please adhere to local & statewide building code. Recommended distance from edge is based on standard-grade concrete (2500 psi). If your concrete is 'high-strength' concrete, edge distance can be reduced. (See ICC Chapter 19, Table 1908.2)



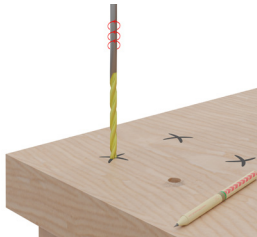
Part 2

Post to Ground Attachment

3. Drill Holes Straight Down

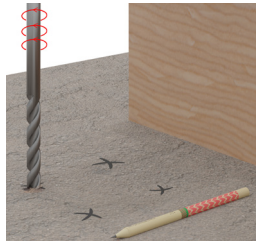
Wood

Use the **smaller** drill bit to drill a hole in the center of the marked hole. (Skip to Step 5)



Concrete

Use the **larger** masonry drill bit to drill a hole in the center of the marked hole. (Continue Step 3)





Part 2

Post to Ground Attachment

3. Drill Holes Straight Down

For Concrete

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 3/8 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).



5/16
(8mm)
Anchor
Bolt



5/16
(8mm)
Masonry
Drill Bit

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.



Part 2

Post to Ground
Attachment

3. Drill Holes Straight Down (Continued)

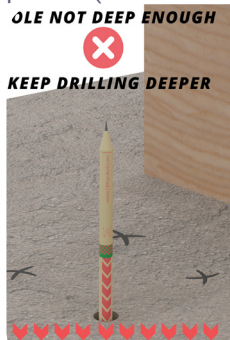
For Concrete

Ensure you have the correct depth. Use the CR Handrail pencil to Part 2 measure the depth of the hole with the flat end of the pencil. (Please double check depth! See next step.)

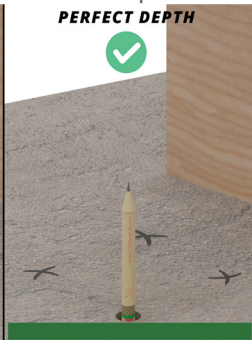
NOT DEEP ENOUGH



KEEP DRILLING DEEPER



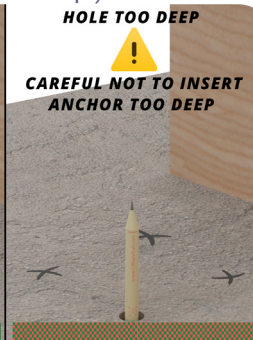
PERFECT DEPTH



HOLE TOO DEEP



**CAREFUL NOT TO INSERT
ANCHOR TOO DEEP**

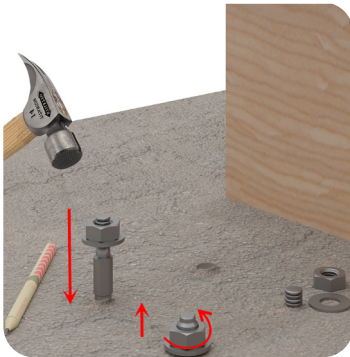




Part 2

Post to Ground Attachment

4. Install Anchors



For Concrete

Once the holes are made, hammer the anchors into the holes.

Note: There is no way to remove the anchor once hammered in. It's better to have a hole too deep rather than too shallow.

Double check! When the anchor is just before the appropriate depth, 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. (You should see a little nib that is above the nut when tightened.)



Part 2

Post to Ground Attachment

5. Prepare Tools to Secure Post to Ground



Use the nut socket & bit extension





Part 2

Post to Ground Attachment

6. Install Lag Screws

For Wood

Follow These steps

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

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

Tip: If your drill can't drive the lag screw down fully, use a wrench to manually tighten it all the way.





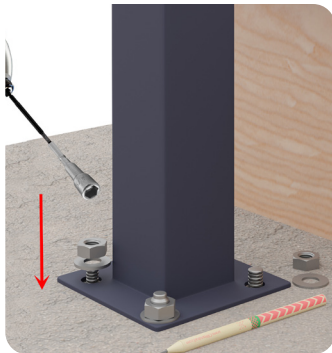
Part 2

Post to Ground Attachment

6. Install Nuts on Anchors

For Concrete

Follow These steps



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



Part 3

Secure Your
Handrail

Secure All Joints

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 the brackets into the metal railing. This will lock the metal in place.



Hex
Bit



Bit
Extension





Part 3

Secure Your
Handrail

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.



8x Self-
Drilling
Screws



Your Modular Handrail is Extendable

Do you now have a gap from the stairs to the side of the house?

CR Handrail can be extended easily.

We will even cut it to the right size so all you have to do is attach both ends of the railing.



Rail kits for your home's every need!

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

Complementary **Cut to Size**
www.crhandrail.com/extension





5 Years' Free Warranty

- 1) Scan the barcode within 30 days.
- 2) Register your product.

Or, register your product at
www.crhandrail.com/5yearwarranty

A heartfelt message from the owners of CR Handrail

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 CRH team love to see a photo or video of your installation!

- Chi & Richard from CR Handrail

Chi & Richard with family at San Diego Safari Park



How can we make it easier for you?

Missing Parts?



www.crhandrail.com/parts

Support



(800) 420-0432
Call or Text
with Photos



(775) 324-8877
WhatsApp