



CR Fence & Rail

Post Kit

For Side Mount Post,
Top Mount Post,
and Fence Channel Kit

Need help? Text us the
picture of your problem

v09072013



You made the right choice of railing!



Cost-Effective



Safe & Durable



Quick to Install



Easily Extendable
(Modular)



Time Required

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 post!



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

Masonry Tools & Hardware Explained

FOR CONCRETE

**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 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).

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.

TOP MOUNT POST KIT INSTALLATION

OVERVIEW:

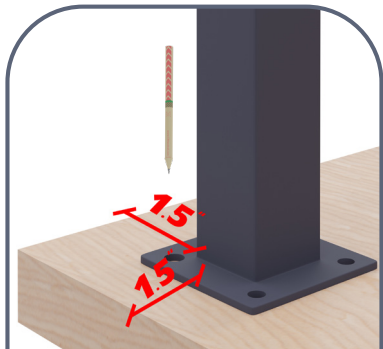
1. Position and Mark the Holes
2. Ensure Corect Depth
3. Install Anchors
4. Secure Post to Ground
5. Insert Post Caps



01

For Top Mount Post

Position and Mark the Holes



Post should be at least 1.5" (3.8cm) away from edges.

Ensure the post baseplate is parallel with edges.

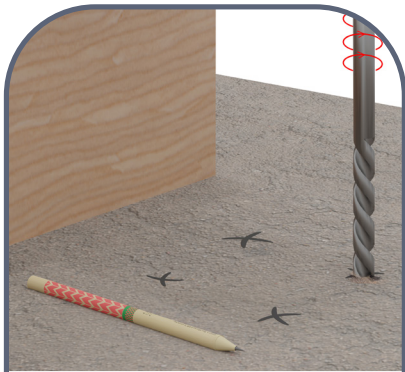
FOR CONCRETE

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

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

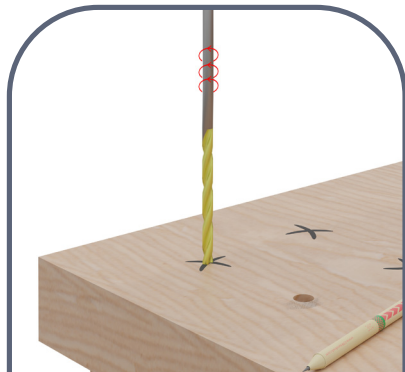
FOR CONCRETE

Larger drill bit
(Continue to Step 3)



FOR WOOD

Smaller drill bit
(Please go straight to Step 5)



For Top Mount Post

Ensure Correct Depth

02

FOR CONCRETE

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 ensure the hole is deep enough.

FOR WOOD

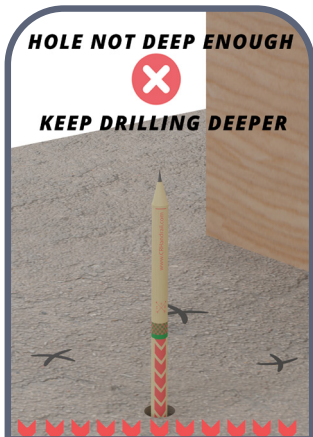
*For Wood, please go straight to Step 5:
(Securing Post to Ground)*

Tip: holes must be deep enough or will have a serious issue

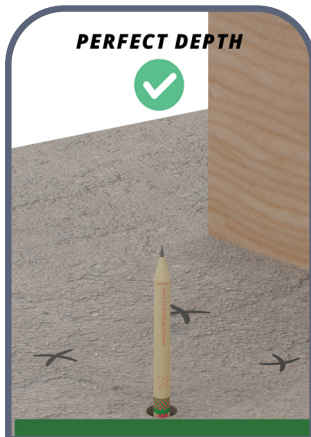
HOLE NOT DEEP ENOUGH



KEEP DRILLING DEEPER



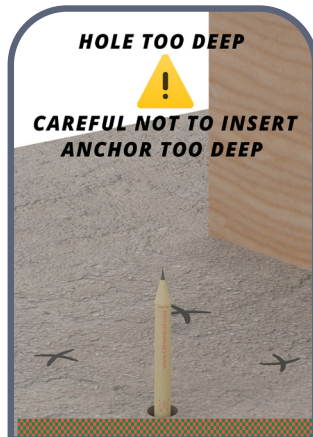
PERFECT DEPTH



HOLE TOO DEEP



**CAREFUL NOT TO INSERT
ANCHOR TOO DEEP**



FOR CONCRETE

For Top Mount Post
Install Anchors

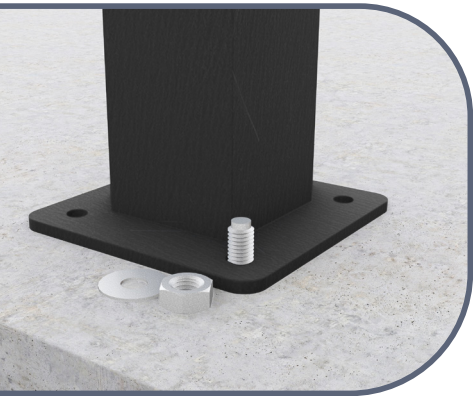
03

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.





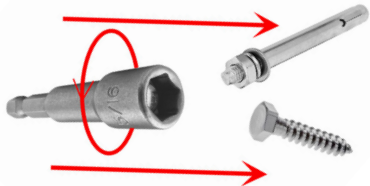
Periodically Double Check!

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.

For Top Mount Post
Secure Post to Ground

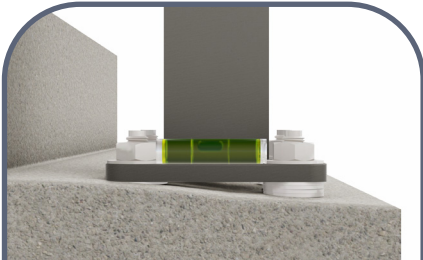
04

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



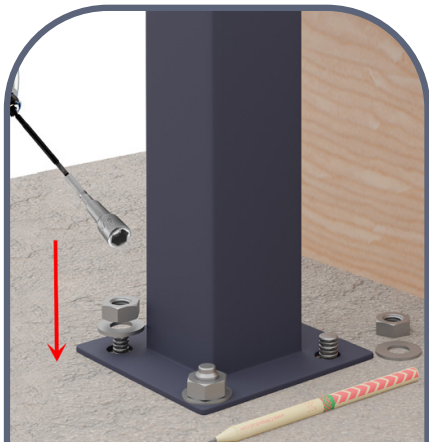
1. Position the posts (along with the complete railing) over predrill holes.

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

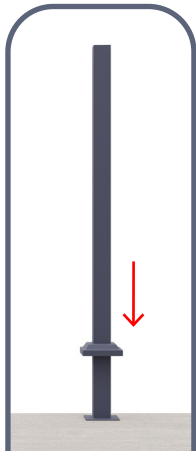


- 1. With all the nuts & washers removed, put the posts onto the anchor bolts (along with the rest of the rail). Install a washer & lag screw, one-by-one**
- 2. Hand-tighten a washer and nut over each anchor bolt.**
- 3. Use the electric drill to tighten the nut (turn off hammer or impact driver function).**

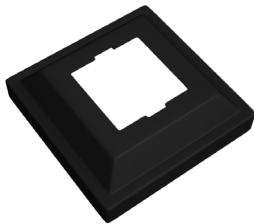
For Top Mount Post

Insert Post Cap and Cover

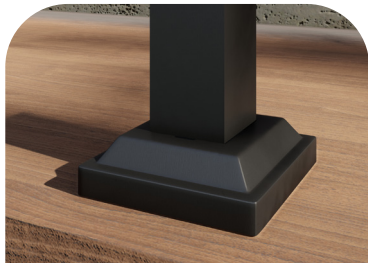
05



Post Cover

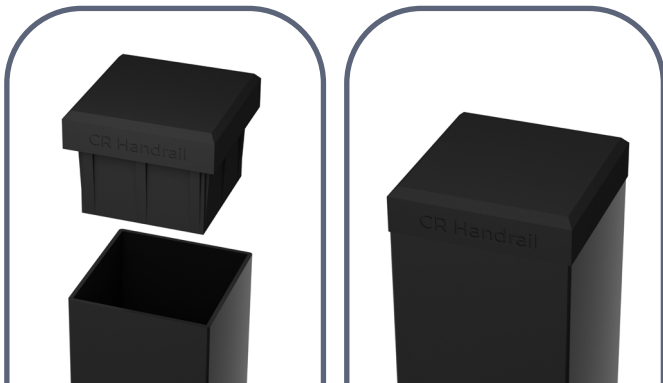


Slide Post Cover down
to cover Baseplate



Post Cap

**Insert Post Cap
to cover Top of Post**





TOP MOUNT POST KIT INSTALLATION COMPLETE!

Continue to Steps 6-8 to
install your
Fence Channels

SIDE MOUNT POST KIT INSTALLATION

OVERVIEW:

1. Position and Mark Holes
2. Attach Metal Plate to Post
3. Secure Post to Side of flooring
4. Cover Holes and Top of Post



For Side Mount Post

Position and Mark the Holes

01

Mark the place where the post goes on the side flooring.

Note: If your flooring has an Edge Lip, use the provided metal plate for better and secure alignment

With Edge Lip



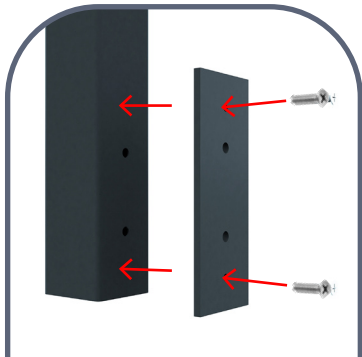
Without Edge Lip



02

For Side Mount Post on Flooring with Edge Lip

Attach Metal Plate to Post



Attach the metal plate on the post using the pre-drilled hole as a guide.

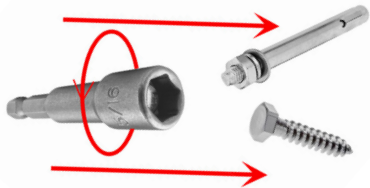
Secure it by drilling through the first and fourth holes with flat-end screws.

For Side Mount Post

Secure Post to Side of flooring

03

Use the nut socket & bit extension



Insert the lag screw into the holes and use a drill to fasten the post to the side flooring.



Make sure the anchor/screws go through the metal plate and into the side flooring securely.

For Side Mount Post

Cover Holes and Top of Post

04

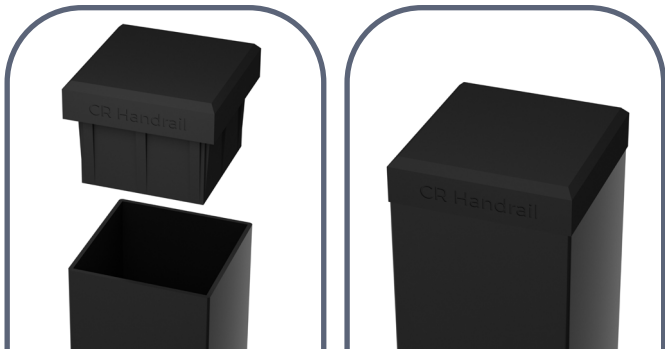


**Insert the provided end caps in each hole to conceal
them for a cleaner, sleeker look.
Attach Post Cap to cover Top of Post**

Hole Cover



Post Cap





SIDE MOUNT POST KIT
INSTALLATION
COMPLETE!

Fence Channel Installation

NOTE: This product is
ONLY compatible with
CR Handrail™ Post.

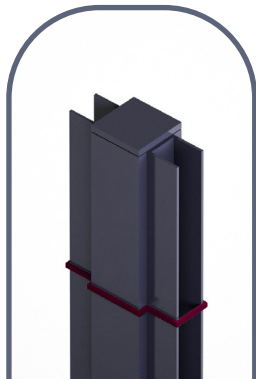
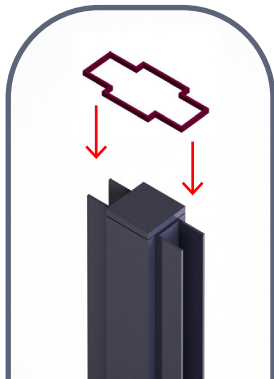
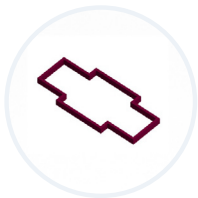


For Fence Channel

Secure Post to Ground

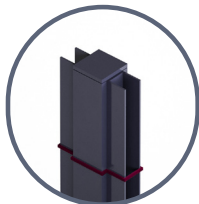
01

**Insert Plastic Guide to
align Fence Channel
to Post**

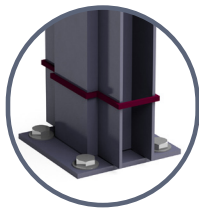


*Insert one (1) on top
and one (1) at the
bottom of the post.*

*This will keep the
Fence Channel center
aligned with the Post.*



TOP



BOTTOM

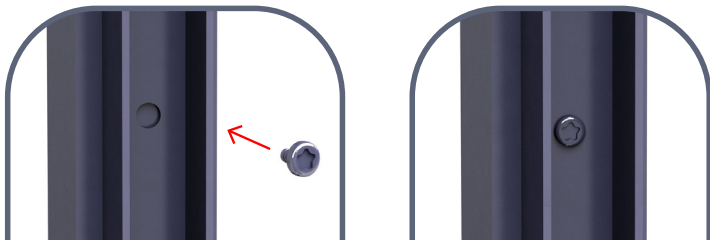


For Fence Channel

Attach Fence Channel to Post

02

Screw through the holes on the Fence Channel to secure to Post. Plastic Guides can be removed once the Fence Channel is secured to the Post.

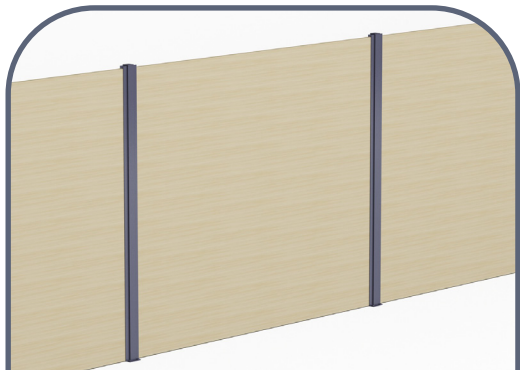
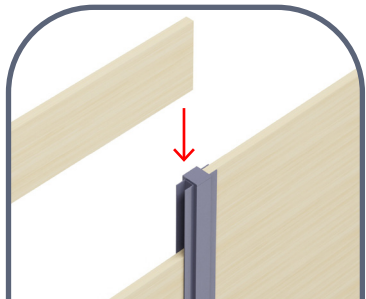


03

For Fence Channel

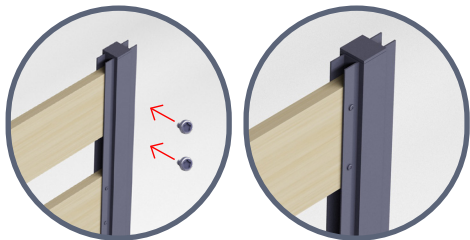
Insert Wood Planks

Insert wood planks into
the Fence Channel.



OPTIONAL: Wood Planks can be spaced out using additional (not included) screws.

**Fence Channel Kit
Installation is Complete!**



A family of four is enjoying a modern outdoor deck. In the background, a man and a young girl are sitting on a grey wicker sofa. In the foreground, a woman and a young boy are walking down a set of wooden stairs. The deck is surrounded by a black metal railing with a wooden handrail. The scene is set against a backdrop of lush green trees and a clear sky. The text "Rail kits for your home's every need!" is overlaid on the bottom left of the image.

Rail kits for your
home's every need!

For CRPHOR4 and
CRPHOR6 Guardrails



Ensure the top and bottom
rail has just the right spacing
between posts

CR Handrail's **Specialty Posts**



Included



NOT included

PC90AR



PC180A



C180F



C90F



SCAN ME



Connect your CRH Rail Kits
using our wide variety of
Top Rail Connectors



PCap



FRBkts-TR



HRBkts-TR



PCvr



Explore CR Fence & Rail's
Brackets and Covers



SCAN ME

5 Years' Free Warranty

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

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





*Real Customer Photo

Need help?

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

Text with Photos
(800) 420-0432





Chi & Richard with family at San Diego Safari Park

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 Fence & Rail

il

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?**



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Support



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