



**CR** | FENCE  
& RAIL

SAFETY, MADE EASY.™

## Post Kit (Side Mount) Installation Guide

**Need help? Text us the  
picture of your problem**

v031524



# 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 Re-**

**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:** Expect the wedge anchor to fit tightly since the specification requires the anchor and drill bit to be the same size. To insert it more easily, you may try these options:

1. Use a slightly bigger drill bit, like a 3/8" one, to make the hole a little more extensive.
2. Gently wiggle the drill bit while in use to enlarge the top portion of the hole subtly.

However, do not enlarge the entire hole, which may compromise the anchor's grip.

### **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***

# What's in your Kit?

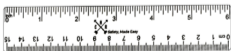
## CoreKit

1 Wood Pilot Hole Drill Bit

1 Masonry Drill Bit

1 Drill Bit Extender  
(for Hex Bit and Nut Holder)

1 Depth Measuring Pencil



1 Ruler



1 Hex Bit



1 Hex Nut/  
Bold Driver



1 Bubble  
Leveler

## AnchorSM



4 Lag Screws



4 Wedge  
Anchors



4 Flat  
Washers



2 Side Mount Baseplate



2 Bottom  
End Cap



4 Hole  
Covers



4 Flat-end  
screws

## Item Specific Parts



2 Side Mount Plain Posts



2 Post Caps



2 Brackets



6 Self-Drilling screws



2 Side Mount Cable Posts



2 Top Plate



4 Flat-end screws



8 Self-Drilling screws



40/48 Cable Sleeve protectors



2 Side Mount Stairs Cable Posts



2 Brackets

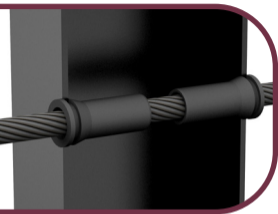


8 Self-Drilling screws



40 Cable Sleeve protectors

Before starting, please double-check that all the necessary tools and hardware are ready for assembly.



This guide covers post-setup only.  
Cable rail installation instructions will be in a separate

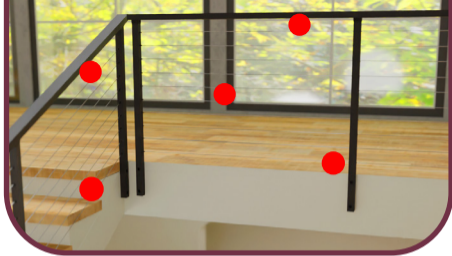
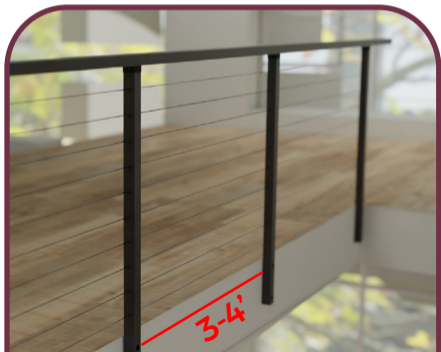
### 3 Key Considerations for our Cable Posts:

Our cable sleeve protectors fit standard 1/8-inch cables.  
When using aftermarket stainless steel protectors:

- They may need larger holes drilled.
- Check for size compatibility with our unique post design.
- End slip-in terminals are an option for installation.

*Accidentally drilled larger holes?  
Contact customer service for a full refund.*

**2** The recommended distance between posts is 3 to 4 feet, with 4 feet as the maximum distance.

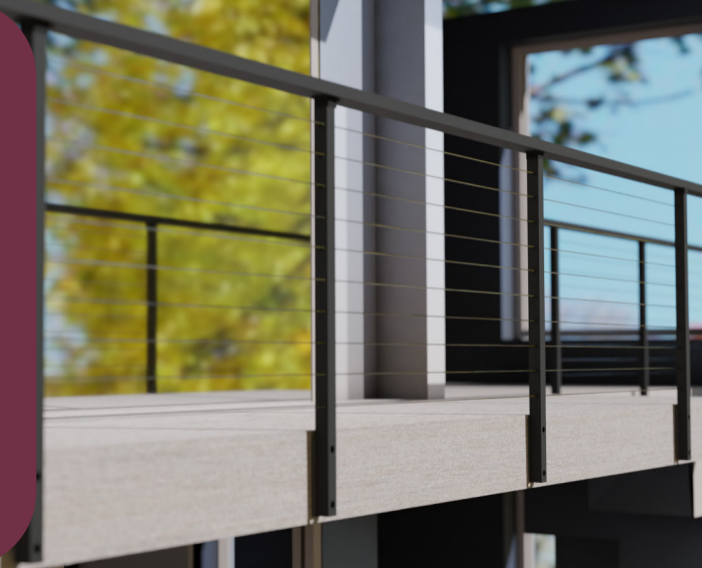


**3** Our Cable Posts features holes drilled  $3\frac{1}{8}$ " center-to-center. For compliance with the **4-inch sphere test standard**, maintain this spacing and apply 200 lbs of tension on each cable.

*Tension gauges for proper tension are available online and at local retailers.*

# Safety, Made Easy.™

The installation of your Side Mount Post Kit will be divided into two parts for ease and clarity.





**Part**

**1**

**Mounting your  
Post to wood or  
concrete surface**



**Part**

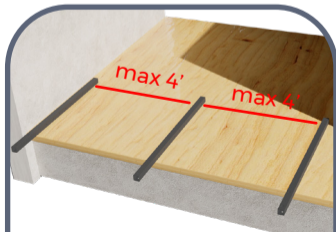
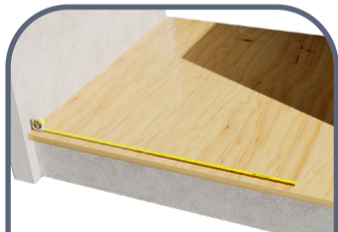
**2**

**Installing Top Rail  
Brackets and Cable  
Sleeve Protectors**

# 01

## Setting Post Distance

**Mark the location for the first post. Measure a max of 4-foot distance for the second post, continuing for additional posts.**



*Ensure markings are from the center of one post to the center of the next.*

## Mark and Pre-Drill the Holes

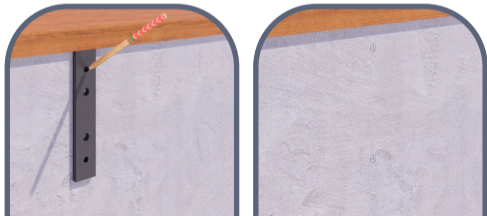
# 02

**Position the metal plate on the side flooring and mark the hole locations with the provided pencil.**

**FOR WOOD**



**FOR CONCRETE**



**FOR WOOD**

Use the Wood Pilot Hole Bit (smaller bit).



**FOR CONCRETE**

Use the Masonry Drill Bit (larger bit).



**Using an electric drill, drill pilot holes following the marked points.**

## Depth Check For Concrete Anchor

# 03

Use the pencil's flat end to check the depth of the holes, ensuring they are deep enough for the anchors.



Hole NOT deep enough  
Keep drilling deeper



**PERFECT DEPTH**



Hole TOO DEEP!  
Careful NOT to insert  
Anchor too deep

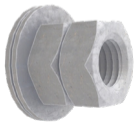
# 04

## Install Anchors

FOR CONCRETE



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



*Tip: To avoid pushing the anchor too deep, stack two washers and two nuts at the end of each anchor before hammering.*

## Periodically Double Check!

*Place the post on the anchor and ensure the nut has enough thread for secure tightening.*

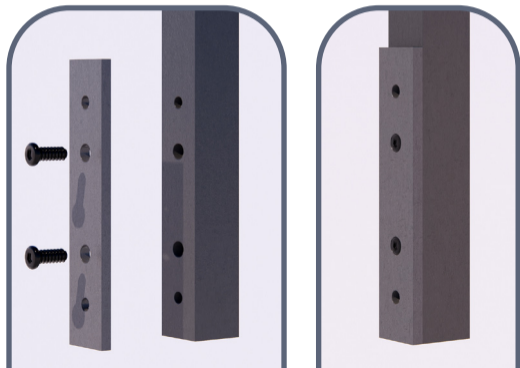


# 05

## Attach Metal Plate

**Line up the metal plate with the pre-drilled holes in the post. Secure it using flat-end screws in the second and third holes.**

*Note: If your side flooring does not have an edge lip, you can skip this step.*





## Use the nut socket & bit extension

FOR WOOD



LAG SCREW



FOR CONCRETE



WEDGE ANCHORS

NUT SOCKET



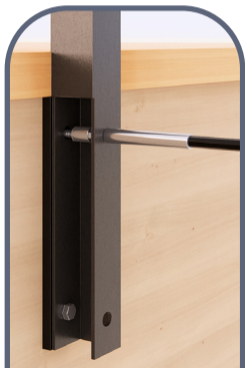
BIT EXTENSION



# 06

## Secure Post to Side of flooring

FOR WOOD



**Align the post with the drilled holes in the side floor.**

**Insert and screw the lag screws through the post and into the side floor using an electric drill with the bit extender and nut socket.**

**FOR CONCRETE**

**Secure Post to Side of flooring**

**06**

**Remove the nut and washer from the anchor bolt.**

**Position the post so the base plate holes align with the anchor bolts.**



# 06

## Secure Post to Side of flooring

FOR CONCRETE

**Attach the nut and washer for each bolt. Use an electric drill with bit extender and nut socket to tighten the nut.**



## Hole Cover, Top and Bottom Cap Installation

# 07

**Plug the holes with the provided hole cover. The hole cover should snap in place.**

*No need for adhesives*

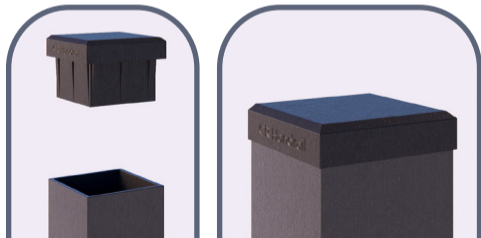




*This Plain Post can be used with top rail and middle rail or baluster guard rail with top rail.*

**If you're not installing a Top Rail, attach the post cap to seal the Top of the Post.**

**Then, place the bottom end cap at the bottom of the post.**



Part

1

**COMPLETE!**

Congratulations on  
successfully mounting  
your post!

**To attach a Top Rail to  
your Post Kit, move on  
to Part 2 outlined in this  
Installation Guide.**



**Part**

**2**

## **Installing Top Rail Brackets and Cable Sleeve Protectors**

These instructions are for installing your Top Rail with the provided brackets in your kit.

Please note that the Top Rail is sold separately.





Scan to purchase  
**CR Fence & Rail's**  
Top Rail Kit.

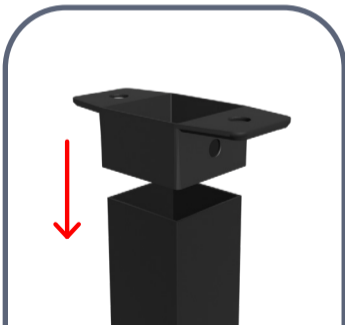


or visit [fenceandrail.com](https://fenceandrail.com)

# 8.1

## Top Rail Bracket Installation For Plain Post

**Install the top rail bracket onto the post with the top of the bracket flush with the top of the post.**



**Make sure the hole is facing inwards or towards the 2nd post. Secure the bracket to the post using 1 self-drill screw per bracket.**

*This post can be used with top rail and middle rail or baluster guard rail with top rail.*

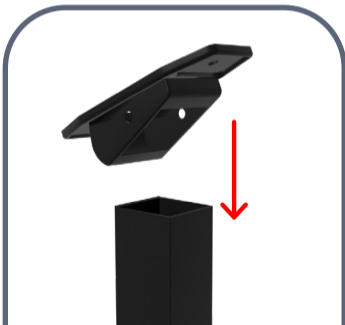


# 8.2

## Top Rail Bracket Installation For Stairs Cable Post

**Attach the top rail bracket to the post.**

**Secure the bracket to the post using 2 self-drill screw per bracket.**



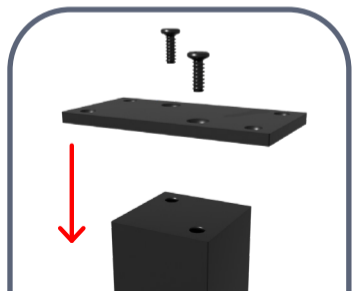
**When attaching the bracket, ensure the flat top post doesn't stick out, to allow proper placement of the Top Rail.**



# 8.3

## Top Rail Bracket Installation For Cable Post

**Place and align the top plate on the top of the post. The 2 middle holes on the top plate and post should align.**



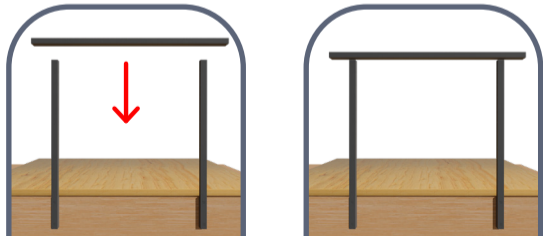
**Secure the plate with flat-end screws in the middle holes.**



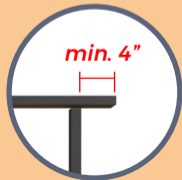
## Ensure Top Rail length

# 09

**Place the Top Rail on the post and check its length. If trimming is required, ensure it's done before moving on to the next step.**



*Adjust Top Rails to extend atleast 4" beyond the Posts.*



# 10.1

## Secure Top Rail For Cable Post

**Use 4 self-drilling screws to secure the top plate through its remaining 4 holes to the Top Rail.**



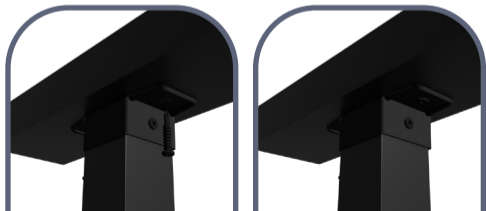


## Secure Top Rail For Plain Post and Stairs Cable Post

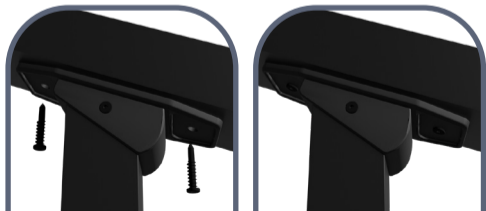
# 10.2

**Use 2 self-drill screws on the 2 holes for the Top Rail.**

*For Plain Post*



*For Stairs Cable Post*



# 11

## Insert Cable Sleeve protectors

**Insert the provided sleeve protectors into the pre-drilled cable holes of the post on both sides.**



*The sleeve protectors should snap in place.*





**Great  
JOB!**



Congratulations on  
successfully completing  
the installation of your  
Side Mount Post Kit!



**Rail kits for your  
home's every need!**

For **BGR4R** and  
**BGR6R** Guardrails



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

CR Fence & Rail's  
**Specialty Post**

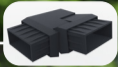


Included



NOT included

TRConCA



TRConSA



TRConSF



TRConCF-Slm



SCAN ME

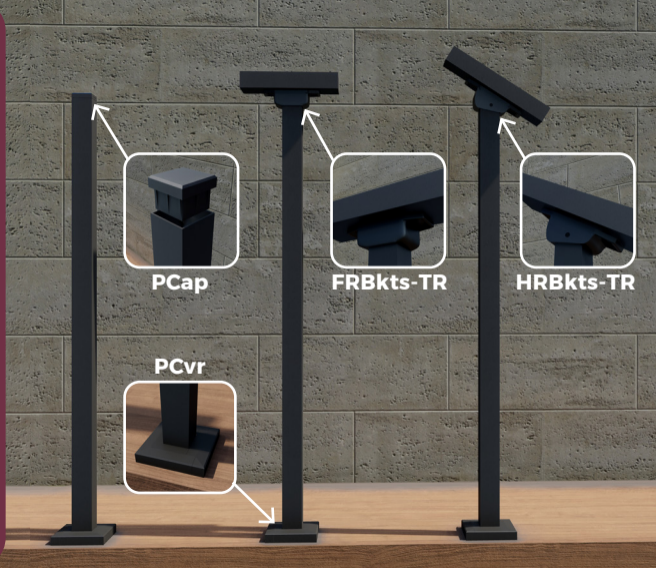


Connect your **CR Fence & Rail Kits** using our wide variety of **Top Rail Connectors**

Explore CR Fence & Rail's  
**Brackets and Covers**



**SCAN ME**



# 10 Years' Free Warranty

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](http://www.fencerail.com/warranty)







\*Real Customer Photo

## Need help?

- Connect Multiple Railings
- Technicl 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 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

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



Susanna P.

★★★★★ **I was worried**

Reviewed in Canada on October 12, 20  
Size: 4 Steps **Verified Pur-**

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 peo-

2 people found this useful



**SAFETY  
FOR ALL!**



**Help Us Make  
a Difference.**

**How can we  
make it easier  
for you?**



**Missing Parts?**  
[www.crhandrail.com/parts](http://www.crhandrail.com/parts)

## **Support**



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WhatsApp  
**(775) 324-8877**