FENCE & RAIL

SAFETY, MADE EASY.™

Horizontal Guard Rail Kit

Installation Guide

Need help? Text us the picture of your problem

v032024

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, responsliblity, 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

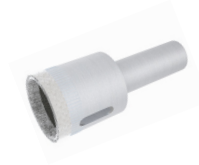
FOR CONCRETE

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: The wedge anchor will be a tight fit. Tis is to be expected as 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.

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.

What's in your Kit?

4'W x 3'H Horizontal Guard Rail Kit

MAIN PARTS

7 Horizontal Circular Baluster

1 Bottom Rail

1 Top Rail

1 Middle Post
with 14 Tube seal

END POST

Additional End Posts sold separately:

End Post
with 7 Tube seal

ANCHOR KIT

4 Wedge Anchors

6 Flat Washers

4 Lag Screws

1 Post Cover

ITEM SPECIFIC ACCESSORIES

8 Flat-End Screws

Non-Universal Parts

1 Wood Pilot Hole Drill Bit

1 Masonry Drill Bit

What's in your Kit?

6'W x 3'H Horizontal Guard Rail Kit

MAIN PARTS

1 Horizontal Circular Baluster

1 Bottom Rail

1 Top Rail

1 Middle Post
with 14 Tube seal

1 Middle Tube
with 14 Tube seal

ANCHOR KIT

4 Wedge Anchors

6 Flat Washers

4 Lag Screws

1 Post Cover

ITEM SPECIFIC ACCESSORIES

12 Flat-End Screws

Non-Universal Parts

1 Wood Pilot Hole Drill Bit

1 Masonry Drill Bit

The full kit is a continuous or daisy-chain connection.

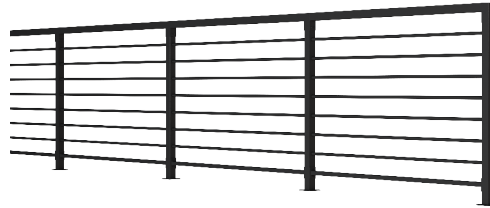
The design can be extended indefinitely until termination (end post).

Basic Setup

Pair the Horizontail Guard Rail Kit with an End Post for a finished look.

HGR4RK

HGR6RK

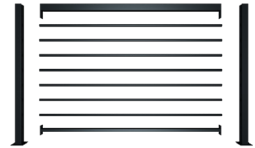


Extend the Railing

Add another Horizontail Guard Rail Kit and End Post to create a longer guard rail.

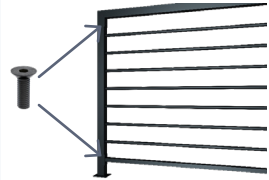
Installing Your Handrail in 1-2-3 Parts

01 Assemble Your Handrail



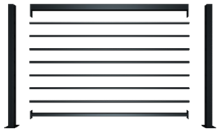
02 Post to Ground Attachment

03 Secure Your Handrail



Part

01

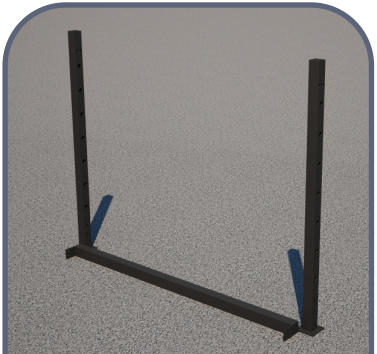


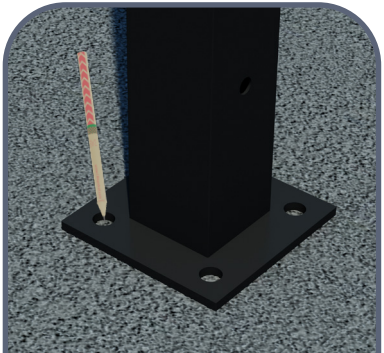
Assemble Your Handrail

Use the top rail to determine where to position your posts. Then, mark the position of that post.

Position and Mark the Posts

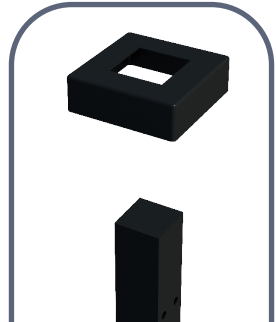
01





02 Attach Metal Post Cover

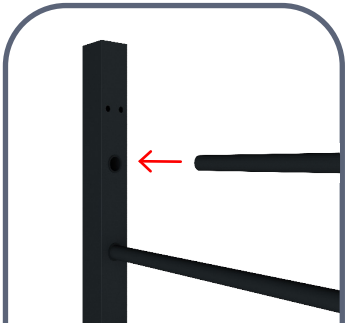
Insert the Metal Post Cover into the Post by sliding it in.



Attach Circular Balusters

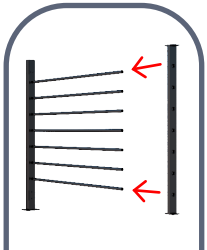
03

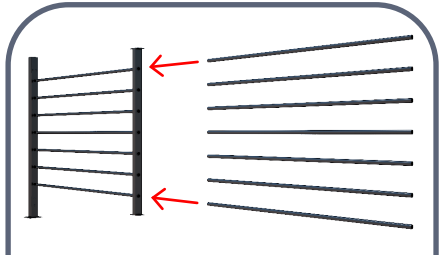
Insert the Circular Balusters onto one of the Posts.

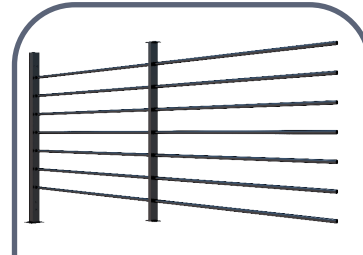


For the 6' Wide Kit, attach the Middle Tube to the circular Balusters, then proceed to attach the remaining Circular Balusters onto the Middle Tube.

You may use a rubber mallet to ensure the balusters are inserted completely.

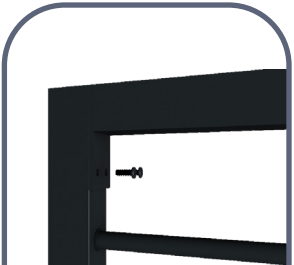


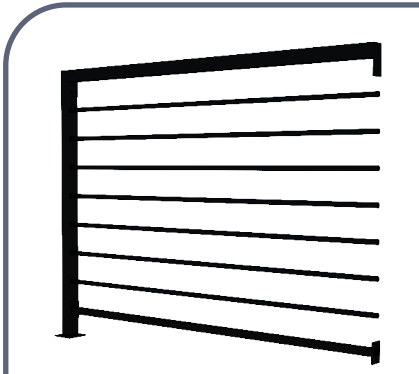




Attach Top and Bottom Rail 04

Loosely attach the Top and Bottom Rail onto the Post.

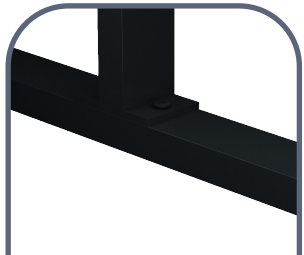




05 Attach Middle Tube

For HGR6RK

Attach the Middle tube to the Rails using Flat-end screws.

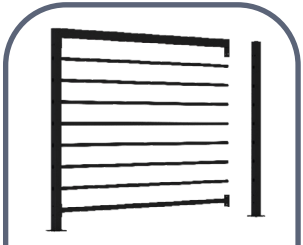


End Posts are sold separately

Attach End Posts

06

Loosely attach the other Post onto the end of the Top rail and Circular Balusters.

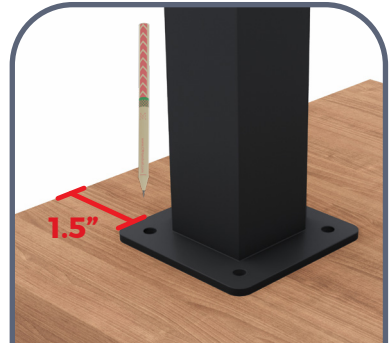


The handrail will be unsecured until the end. We will loosely position the handrail first to mark holes for post-installation.

Part 02

Post to Ground Attachment

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



Pre-Drill the Holes

07

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

Ensure the post baseplate is parallel with edges.

FOR WOOD

Use the Wood Pilot Hole Bit (smaller bit).

FOR CONCRETE

Use the Masonry Drill Bit (larger bit).

08 Depth Check

For Concrete Anchor

Check hole depth with the pencil's flat end—this quick check helps ensure holes are deep enough to prevent

Hole NOT deep enough
Keep drilling deeper

PERFECT DEPTH

Hole TOO DEEP!
Careful NOT to insert
Anchor too deep

Use the nut socket & bit extension

FOR WOOD

FOR CONCRETE

LAG SCREW

WEDGE ANCHORS

NUT SOCK-

BIT EXTENSION

09 Secure Post to Ground

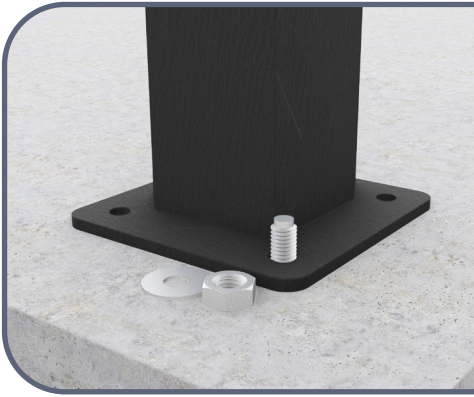
FOR CONCRETE

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.



FOR WOOD

1. Align the posts above the pre-drilled holes.

2. Secure each post by installing a washer and lag screw, one at a time.

3. Once all posts are installed, double-check each to confirm they are firmly tightened.

Tip: Turn on your drill's hammer or impact feature for better performance if it has one.

FOR CONCRETE

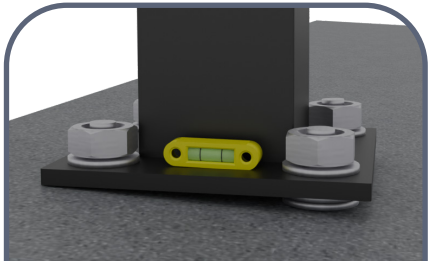
1. Remove all nuts and washers, then place the posts on the anchor bolts.Attach a washer and nut to each post, one after the other.

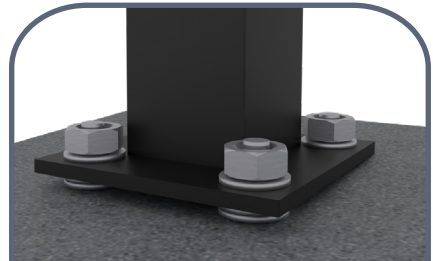
2. Tighten a washer and nut by hand on each anchor bolt for a secure connection.

3. Use an electric drill to firmly tighten the nuts. Make sure the drill's hammer or impact setting is off to prevent damage.

What if Post Not Level?

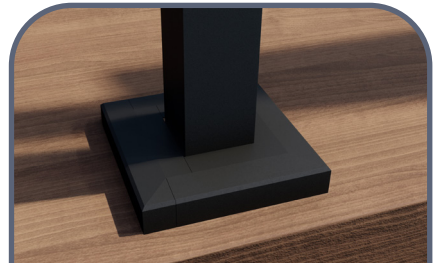
If ground is not level, use included extra washers to shim the baseplate.





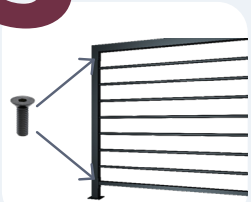
Missed the Metal Post Cover?

If you missed attaching the metal post cover and the post is already up, don't worry! Contact us and we'll send you a FREE plastic cover as a replacement.



Part

03

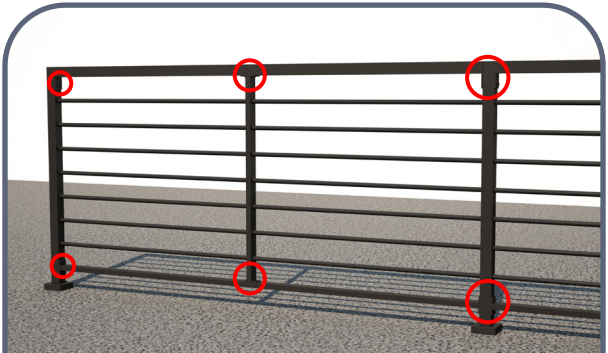


Secure Your Handrail

HEX BIT

BIT EXTENSION

Tighten screws using Bit Extension and Hex Bit.



Great JOB!

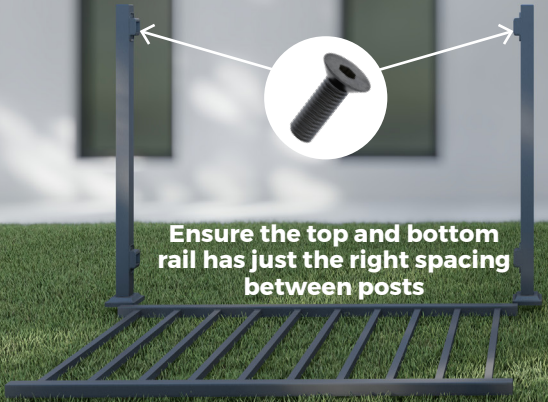
Congratulations on successfully completing the installation of the your Horizontal Guard Rail Kit!

Rail kits for your home's every need!

CR Fence & Rail's

Specialty Post

For BGR4R and BGR6R Guardrails



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

Included

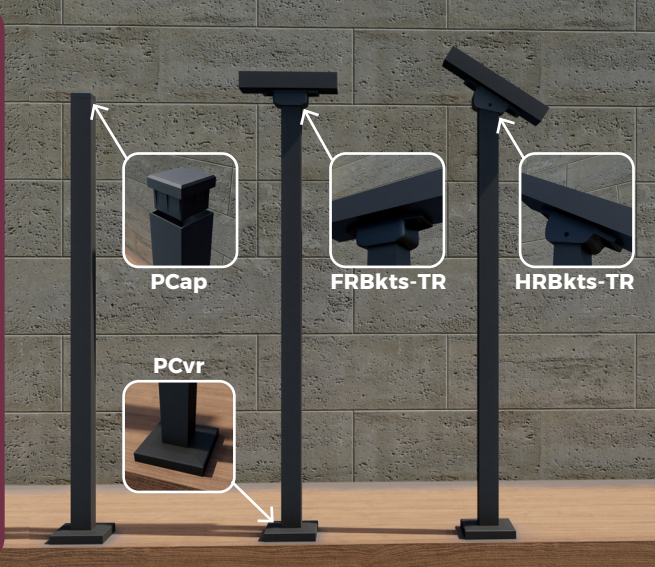
NOT included

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

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 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

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 possi-
bly 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.fencerail.com/parts

Support

Text with Photos
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