BIOSHIELDUV®

CR Fence Kit Installation Guide

MODELS COVERED **FM6x5** **FM6x6** **FMG6x5** **FM-5c** **FM-5e** **FM-6c** **FM-6e** **FMG-5c** **FMG-5e** **FW6K** **CWSec-Oak** **CWSec-Teak** **CWSec-Chestnut** **CWSec-Burbon**

⚠ **Read every instruction and every safety message in this guide before you install or service this product.** Keep this guide with the equipment.

> Lisez toutes les instructions et tous les messages de sécurité avant d'installer ou d'entretenir ce produit. Conservez ce guide avec l'appareil.

NOTICE

A fence carries wind load and, on a slope, its own geometry. Adhere to your local and statewide building code for height and setback, and hire a licensed and bonded contractor if you are unsure. You and your installer make the final determination of the means and methods appropriate for your site.

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Safety precautions

Read every message in this section before you touch any component. They apply to every model this guide covers and to every installation surface.

WARNINGThe hardware we ship may not be the hardware your site needs — Please make sure the hardware and tools we provided will be right for your install (read the 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.

WARNINGAnchor strength depends on the hole and the concrete — 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.

CAUTIONEdge distance and building code — Please adhere to local & statewide building code. The 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.

CAUTIONFence channels fit CR posts only — The CR fence channel is ONLY compatible with a CR post. Fitting it to another manufacturer's post is outside what this hardware was designed and tested for.

Means and methods disclaimer

In no event shall CR Fence & Rail Inc 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 Fence & Rail Inc'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 Fence & Rail Inc'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 Fence & Rail Inc'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 or death.

If your printed booklet names a different company in this clause, this page is the current one: CR Fence & Rail Inc is the registered entity. Earlier printings carry an out-of-date name.

Time and tools required

Time required

- Allow a day for a run of several sections, plus concrete cure time if you are setting posts in concrete

Tools required

- An electric drill or hammer drill
- A string line and a measuring tape
- An abrasive saw, if the post or the channel needs cutting to height

Masonry tools and hardware (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

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 only recommend using our masonry drill bit without wiggling.

Part 1: Set out the run

1 Determine the total sections needed

Measure the run and divide it by your section width. For a low divider fence without full privacy, use shorter heights (38") or cut a taller post kit down to size. For full privacy, use the full-height posts.

We can help: send us the run and we will provide a site drawing with all the spacing and distances calculated. Otherwise, lay all the boards and posts out on the ground first so you can see how it fits together.

2 Mark the post line

Use a string line to mark where the posts will go along the run.

3 Space out the posts

Using a measuring tape, or the actual board, space out the posts — adding a 1/4" gap on ONE side.

NOTICE! If the distance between posts is more than 6 feet, add a piece of 2x4 timber along the centre of the fence to stop the planks bulging over time.

Part 2: Set the posts and the channels

4 Attach the posts to the ground

Follow the post kit guide that matches your mount — top mount for a post that stands on the surface, side mount for one that bolts to the side. Corner and end post kits (FM-5c / FM-5e / FM-6c / FM-6e, and the gate equivalents FMG-5c / FMG-5e) mount the same way; what differs is which faces carry channels.

5 Align the fence channel with the plastic guides

Insert a plastic guide at the TOP of the post and a second at the BOTTOM. These keep the fence channel centre-aligned with the post while you fix it.

6 Attach the fence channel to the post

Screw through the holes on the fence channel to secure it to the post. The plastic guides can be removed once the channel is secured.

Part 3: Fit the planks

7 Insert the planks

Insert the wood or composite planks into the fence channel. If wooden planks are used, leave a 1/2" gap or more from the bottom up, to reduce rotting.

> Optional: planks can be spaced out using additional fence channel kit screws (not included).

8 Cut to height, and cap

The fencing post and the fencing channel can be cut to the appropriate height with any abrasive saw. The CR cap will cover any rough edges on top.

Fencing on a slope

A Follow the contour

Determine the angle to cut the planks, and measure the distance ALONG the slope for the spacing between posts. Drawback: where there are several different slope angles this can look untidy.

B Step the sections

Alternatively, install the fence sections at staggered heights. On a run with more than one slope angle this is usually both easier and better looking.

Terminating to something other than a post

T Terminating to a wall or another surface

We sell additional fence channel that can be attached to all types of surfaces, so a run can terminate into a wall, a building or an existing structure rather than into a post.

5-year warranty

Register your product within 30 days to activate the warranty.

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

Need help?

We are here to help you get it right. Text us a photo of the problem — it is the fastest way for us to see what you are looking at.

> **Call or text with photos:** (800) 420-0432
>
> **WhatsApp:** (775) 324-8877
>
> **Missing parts?** We will replace them free — www.fencerail.com/parts

We can help with

- Connecting multiple railings
- Technical drawings
- Complicated installations
- Installation error
- Missing parts

Source of this guide: Authored from the CR fence-channel procedure in the shipped Top Mount Post Kit guide (pages 30–35) and the existing fencerail.com page "Installation Guide for Horizontal Wood Fence". NOTE: THERE IS NO SHIPPED PDF FOR THE METAL FENCE KITS — until this page, the metal fence family shipped with no written instructions at all.