

Innovative Equine Systems



INSTALLATION TIPS

QUICKRAIL™ FENCE

QuickRail™ Overview

Our innovative QuickRail™ fence, designed for tight animal containment, consists of posts, rails and removable brackets. Optional gates are also available. Posts supplied by Innovative Equine Systems (IES) are 4x4 and are made from heavy gauge steel. Wood posts may also be purchased by your local supplier and are usually pressure treated 4x6s or 6x6s. QuickRail™ brackets are attached to the steel posts using a 3/8" hex bolt or into the wood with Torx head wood screws (use lag bolts if Torx head wood screws are not available).

Posts

Since QuickRail™ is a custom component fence system and each containment design is different, the descriptions that follow are for typical paddocks (usually 12-14' x 24') using 7' long posts 6' on center with 2' in the ground. For tight containment, we usually recommend 5 rails using 1-5/8" galvanized tube. Longer posts may be necessary in sandy or unstable soil or for sloped conditions.

Make sure to set all posts in their corresponding positions; i.e., the line posts in line, the corner posts in corners and gate hinge side and latch side in the proper configuration. Set the 4x4 steel posts 6' O.C. in concrete using a 9" auger or appropriate diameter for soil conditions. Other spacing may be used according to your individual design and the desired strength. In the case of sloping conditions, the alignment of the post tops should be determined in advance of order so that the proper lengths are used. Sloping paddocks can be achieved with QuickRail™ brackets by either the inherent tolerance in the brackets themselves or by shimming the bracket during installation. Steep paddocks are not recommended.

If you are using gates, then the dimension between the latch side post and the hinge side post **MUST** be extremely accurate. Set your gate into position to make sure you have accurately positioned your posts so there is room for the hinges as well as tolerance for the latch.

Rails and Brackets

After the posts have been set and the concrete cured, cut the pipe rail for each section minus 1" to allow for the pipe to be inserted into the QuickRail™ bracket. Insert a QuickRail™ bracket on each end of the rail and starting at the bottom of each post, slip the whole section in between the posts. Use a 1" x 3/8" hex head bolt and insert it **into the bottom holes in the bracket first**. Start threading the bolt through the bracket and into the rivet nut in the post **BY HAND**. **DO NOT TIGHTEN AT THIS TIME**. Do the same with the upper holes in the bracket, using the same hex head bolt. Tighten using a battery powered drill with a clutch head. Set ratchet so that the bolt is snug. **DO NOT**

OVER-TIGHTEN as this will strip or cause the rivet nut insert to fail. Attach the other end of the tube in the same manner starting at the BOTTOM hole of each bracket. Repeat each section from the barn outward and from the bottom up. Note: In order to protect the rails from rusting at the cut ends, use a spray-on rust paint protector or a cold galvanized paint.

Gates

Install gates using the supplied hardware. If a latch was ordered, install the Sure-Latch gate pin onto the gate using the supplied hardware. Position the Sure-Latch on the gate post and pull the gate into position with the pin inserted into the Sure-Latch. There should be a ½" gap between the Sure-Latch and the end of the pin on the gate. Mark the four (4) holes of the latch onto the post. Drill holes for the latch into the gate post and thru-bolt using short hex bolts and locking nuts on the inside of the post. You will need to reach into the post to accomplish this attachment, so make sure to position the latch high enough on the post. Use clear finger nail polish to seal the drilled holes and protect from rusting.

Post Caps

After completion of the rails and gates, secure the post caps by using a rubber hammer. These post caps usually are press fits; however, if they are loose, silicone them into place.

Repair Rails

In order to repair rails, reverse the installation process by taking each rail off and inserting and reinstalling a new rail.

Important Notes to Installers

All of our steel posts and rails can be powder coated to order. In this case, the rails must be pre-cut at our shop. Posts then must be very accurately set so field cutting is not necessary. (This is optional.)

If harsh climates are present in the area of installation, installers may elect to use stainless steel bolts instead of the zinc coated as supplied.

Do not use 110v electric motor drills or pneumatic power drivers for bolt installations on QuickRail™. These may damage the rivet nuts beyond repair.

In wet, harsh or salt water conditions, we recommend using an anti-seize lubricant (not provided) on all hex bolts prior to installation.