



INSTALLATION

Maximum Vinyl Products offers a complete line of durable, attractive vinyl fencing and railings – a wise investment adding both beauty and value to your home.



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Before You Begin...

Congratulations! You've purchased a high-quality lifetime vinyl product that will provide you with years of security and comfort. We truly appreciate your business, and we wish you the best of luck with your installation.

Before you begin, please consider a few tips:

- Research your local ordinances and regulations regarding fencing and railing before installation. (You may need to know pertinent information such as height restrictions and property line setback requirements.)
- **KNOW WHAT'S BELOW BEFORE YOU DIG!** If a digger's hotline exists in your area, call that first. If not you will most likely have to contact local utility companies to learn of any buried lines, pipes, cables, etc.
- Please read the entire installation instructions before starting the installation of your fence or railing. If your installation is different than shown, please contact your dealer for assistance. Failure to follow instructions will void any warranty on the product.
- Collect all necessary tools, materials and supplies before you begin. If your installation requires setting more than a few fence posts, anticipate renting or borrowing an 8" or 10" power auger. Using a power auger for your installation will significantly reduce the time and effort required to set posts and is highly recommended. As always, use appropriate tools and safety devices as per manufacturer's recommendations.
- Plan ahead. Develop a good post layout sketch or drawing of the fence line, or railing line.
- Determine if you are going to have to "cut down" any panels. Keep in mind that a symmetrical layout is pleasing to the eye. For example, say you have a 40' fence line on the right side of your back yard and a 28' fence line across the rear. On the right side of your back yard, you would most likely use five pre-assembled 8' panels. Regarding the rear however, your first inclination may be to use three pre-assembled 8' panels and one that you would cut in half to 4'. But cutting each panel to 7' will give the rear fence line a symmetrical look that's nearly indistinguishable from the 8' panels in the longer fence line.

Installation Guide for Straight & Stair Railing Sections

RAILING LAYOUT

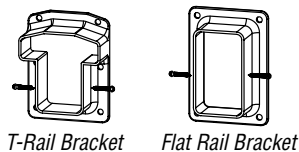
Measure the locations of all posts and railings. Correct or identify any potential problems.

Railings may need to be modified for the shorter span. To maintain equal picket spacing, cut both ends of top and bottom rail equally to accommodate shorter spans.

Tip: Aluminum rail inserts can be cut using a saber saw equipped with a suitable blade. USE CAUTION! Cutting rail inserts creates sharp edges!

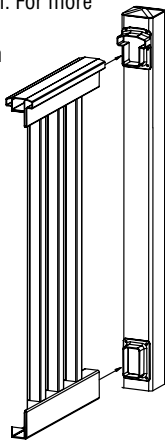
INSTALLATION OF THE RAILING SYSTEM

In the externally mounted rail system, the posts are blank to allow top and bottom rail-mounting brackets to be installed. The top rail will be a 3-1/2" x 3-1/2" T-rail or a 2" x 3-1/2" standard rail and the bottom rail will be a 2" x 3-1/2" standard rail. In either case the assembly will be the same.



INSTALLING FULL RAIL SECTION

- 1) Install wooden posts or post mounts. Locate carefully. Sleeve the vinyl post over the 4" x 4" wooden posts or the 4" x 4" post mount. If using the optional New England Base Trim, slide it over the post and push down to the bottom. For more information on the post mount, please see the Installation of Steel Post Mount section on page 6.
- 2) After installing the posts and base trim (if applicable), follow these five steps for installing the rail section:
 - a. Locate and drill holes in posts for mounting brackets.
 - b. Attach top and bottom rail mounting brackets to one of the posts with #12 stainless steel pan-head screws (bottom rail not more than 2" from surface).
 - c. Place brackets on one end of the top and bottom rails, then slip opposite end of rails into brackets already mounted to post.



Top T-Rail



Top Flat Rail



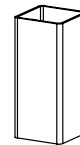
Bottom Rail

d. While positioning the unattached end of rails, slide the unattached brackets to the end of rails, line up holes and attach both brackets with #12 stainless steel pan-head screws.

e. Place a #12 stainless steel pan-head screw into both sides of the rail bracket on each end of both the top and bottom rails.

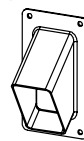
3) Insert foot support if necessary.

4) Repeat the above process for each rail section to be installed.



Foot Support

2" x 3-1/2"
Top & Bottom



T-Rail Top Post



T-Rail Bottom Post

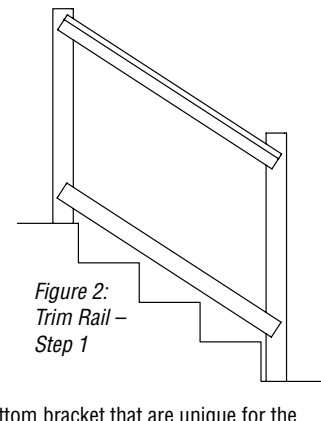


Figure 1

INSTALLATION OF THE STAIR RAILING SYSTEM

Prior to starting the installation of the stair railing section, it is necessary to properly install posts at the desired locations. Each end of the rail section will require a post or structural support located at the top of the stair system and bottom to receive the railing sections. The distance should not exceed 8' measured at the angle of the stairs between these supports. Shorter distances may be accommodated by "cutting down" the railing panel.

The railing systems are mounted to the post or structural surface with the use of mounting brackets that are manufactured to the standard slope of stair systems and will allow for a minimal amount of adjustment to the slope.



The top T-rail mounting bracket utilizes a top and bottom bracket that are unique for the slope of the rail. The brackets should be carefully inspected so that the proper bracket is used at the top and the other at the bottom. See Figure 1 above. The bottom rail is made from 2" x 3-1/2" rectangular material and utilizes the same bracket top and bottom angled at the standard stair slope.

POST CAP INSTALLATION

- 1) Make sure the inside walls and the mounting surface of the cap are clean and dry.
- 2) Apply glue to the inside of the post or external mounting surface of the cap.
- 3) Press cap in place.
- 4) Allow glue to dry 2-4 hours without disturbing the bond.

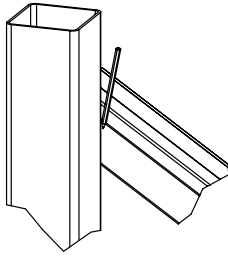


Figure 3:
Trim Rail – Step 2

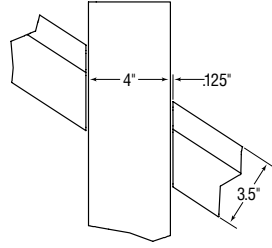


Figure 4:
Trim Rail – Clearance

INSTALLING FULL STAIR RAIL SECTION

1) To properly fit the rail section, it will be necessary to cut or trim the top and bottom rails of the railing to the angle of the slope. The railing has been pre-routed to allow the railing to “rack” (slope) to the stair system angle. The top and bottom rail sections are strengthened with aluminum “H” channels that will be cut or trimmed along with the vinyl rails. To locate and measure the amount and angle to trim (cut) each end, place the rail section in place with the bottom rail resting on the stair treads directly next to the bottom and top post. See Figure 2 on page 5. Using a marker or pencil, mark the top and bottom rails using the post edge as the guide. See Figure 3 above. In order to insure that the balusters are positioned evenly between the posts, inspect the location and adjust the rail up or down prior to marking the top and bottom rail. The top and bottom rail sections should be trimmed at these angles. However, it will be necessary to cut an additional 1/8" off each rail to install the bracket properly. See Figure 4 above.

2) To locate and position the top rail brackets, place the proper bracket in position on each post or support and outline or mark the position where the bracket is to be installed. The installation process may be made easier by pre-drilling a pilot hole in the two top positions of each bracket while holding it in the proper position on the post.

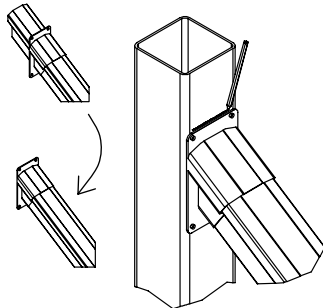


Figure 5:
Marking the Bracket Position

3) Now that the railing sections are trimmed to size and the mounting brackets have been marked for position, all four (4) brackets should be temporarily placed on all rail ends. To attach the top rail brackets to the post, assistance from an additional person will further reduce the time and effort to finalize the installation.

Holding the top rail with the brackets in place, install two #12 stainless steel pan-head screws at the top location of the brackets at each end of the railing. This will hold the railing in position while installing the balance of the fasteners. Install #12 stainless steel pan-head screws at all identified areas on the bracket.

4) To install the bottom rail brackets, allow the railing system to fully expand or drop into position. The bottom brackets should be centered on the post and secured using #12 stainless steel pan-head screws at all identified areas of the brackets.

Maximum includes white vinyl screw caps that will conceal the head of each screw. Each screw cap consists of two parts, a receiving washer that is installed under the screw head prior to installing the screw and a finish cap that is fitted over the head of the screw after installation.

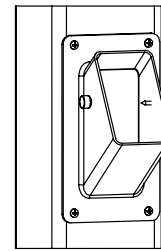
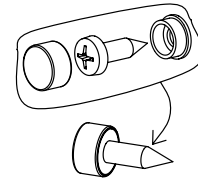


Figure 6:
White Vinyl Screw Caps

INSTALLATION OF STEEL POST MOUNT

The use of post mounts will be necessary when installing railing posts in the absence of a 4" x 4" wooden post. The purpose of the post mount is to create a secure mount for the vinyl 4" x 4" post.

4" CONCRETE POST MOUNT

This post mount is designed for installation of a post to a concrete surface.



3/4" Concrete Stud Fastener

1) The concrete post mount is installed with one fastener centered in the bottom plate of the mount. A 3/4" concrete stud fastener must be used to secure the post mount to the concrete floor.

2) Locate and position the post mount where needed. Normal center-to-center railing post spans range 4' to 8' between posts. The post mount has been routed to allow the bottom rail to pass through the mount and care should be given that the mount is installed to allow the bottom rail to pass through the mount. Note that the post mount configuration is a U in design, which allows for corner installation.

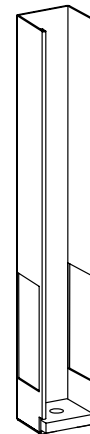
3) After post has been positioned, mark the floor to locate the position of the fastener.

4) Install the concrete fastener using the installation instructions provided by the fastener manufacturer.

5) Using the fastener that has been installed, position the post mount on the fastener and securely tighten the post mount.

6) In the event post mount does not stand level and plumb, the post mount can be corrected by inserting a metal shim under the post mount base. Most common is the use of steel washers to act as shims.

7) Continue installing each post mount as required.

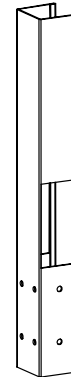


4" Concrete
Post Mount

4" JOIST MOUNT

This post mount is designed for installation to the joist system under the floor or deck.

- 1) Locate and position the 4" joist mount to the joist system where needed. The post mount has been routed to allow the bottom rail to pass through the mount and care should be taken that the mount is installed to allow the rail to pass through the mount. Note that the post mount configuration is a U in design, which allows for a corner installation.
- 2) Securely fasten the post mount with 3/8" x 4" carriage bolt or better to the joist system utilizing all predrilled holes to receive the fasteners. Blocking may be necessary for additional support.
- 3) Continue installing each post mount as required.



4" Joist Mount

WARRANTY

TRANSFERABLE LIMITED LIFETIME WARRANTY

Maximum Vinyl Products warrants its fence products, subject to the conditions and limitations listed herein, to be free from defective manufacturing workmanship and/or materials that result in peeling, flaking, blistering, corroding, rotting, or abnormal discoloration under conditions of normal use and service.

Maximum Vinyl Products warrants only those products manufactured by it, and the warranty extends only to the original purchaser or transferee as specified herein. If any fault, as described above, becomes apparent in the manufactured product, Maximum Vinyl Products, at its option, will provide all material reasonably necessary to rectify the covered defect, except where damage or defect results from the following:

CONDITIONS NOT COVERED BY THIS WARRANTY:

Failure of, damage of, or malfunction of fence resulting from accident, misuse, abuse, impact of foreign objects, alteration, improper installation or application, settlement or failure of any structure on which product is installed, negligent or intentional acts causing damage, tornado, hurricane, or other violent storms, fire, wind, hail, lightning, or other acts of God, exposure to harmful chemicals, pollutants, vapors, or acid rain, and fence products that have been painted or maintained in a manner other than recommended by Maximum Vinyl Products.

REGISTRATION OF WARRANTY:

To protect your rights under this warranty, the attached registration card must be completed, signed by the original purchaser, and returned to Maximum Vinyl Products within 30 days of purchase. In the event the attached registration card is not returned within the 30-day period, receipt of purchase must be provided by original purchaser to be eligible for coverage under specified warranty.

TRANSFER OF WARRANTY:

This warranty is transferable by the original owner to any subsequent owner of a property where Maximum Vinyl Products fence products have been permanently installed, and where proper registration of this warranty has been filed. For continued terms of this warranty to be effective, Maximum Vinyl Products must receive written request for transfer, proof of original purchase, and a \$50.00 transfer fee payable to Maximum Vinyl Products within 30 days of the date of real estate transfer. Failure to provide

written request for warranty transfer within 30 days will relieve Maximum Vinyl Products of any further obligation under this warranty.

CLAIMS AND REMEDIES:

Any claim set forth under this warranty must be reported in writing to Maximum Vinyl Products, 894 Prairie Avenue, Wilmington, OH 45177 within 30 days of the date that the defect was first discovered or reasonably could have been discovered. Maximum Vinyl Products should have reasonable time to inspect the defective product before any claims can be set forth under this warranty. If the fence product manufactured by Maximum Vinyl Products is deemed defective under the conditions stated herein, Maximum Vinyl Products will, at its option, provide all necessary replacement material for the defective part or section as stated under this warranty.

Maximum Vinyl Products makes no express warranties except as herein stated. Any express or implied warranty not provided herein, and any remedy for breach of contract, tort or otherwise that, but for this provision, might arise by implication or operation of law, is hereby excluded and disclaimed. Maximum Vinyl Products shall not be liable for special or consequential damages or losses for inconvenience, labor, loss of time, or other incidents arising from the purchase or use of Maximum Vinyl's products.

(Actual warranty is obtained with purchase. The preceding is the actual warranty text.)

The diagrams and instructions in this brochure are for illustration purposes only. Any construction or use of the product must be in accordance with all local zoning and/or building codes. Except as contained in our transferable limited lifetime warranty, Maximum does not provide any other warranty, either expressed or implied, and shall not be liable for any other damages. The consumer assumes all risks and liability associated with construction or use of this product. The consumer or contractor should take all necessary steps to provide safety to everyone involved in the project, including but not limited to wearing appropriate safety equipment.

VINYL MAINTENANCE

- 1) Use an ordinary carwash brush and a garden hose to wash down your Maximum vinyl fence or railing. It will keep everyday dirt and dust off of it between rains.
- 2) If you need to remove more than everyday dirt and dust, then wipe down your vinyl fence or railing with the following:
 - 1/3 cup powdered detergent
 - 2/3 cup of household cleaner
 - 1 gallon of water
- 3) For stain removal refer to the chart below:

| Stain | Cleaning Product | Method |
|--|--------------------------------------|---|
| Grease Oil Caulking Wax Asphalt Tar Crayon | Mineral Spirits Auto Tar Remover | Remove any excess with a plastic scraper. Using a soft cloth, apply mineral spirits and wipe. Avoid excess pressure and rinse with water. |
| Gum Nail Polish Lipstick Paint Marking Ink | Cleaning Fluid (trichlorethylene) | Using a soft cloth, apply cleaning fluid and wipe. Avoid excess pressure and rinse with water. |
| Rust Stains | Auto Radiator Cleaner Oxalic Acid | Apply oxalic acid with a soft-bristle brush, wipe with a damp cloth, and rinse with clean water. |
| Stubborn Stains | Lacquer Thinner | Dampen a small section of a clean cloth with lacquer thinner and rub vigorously. Rinse area with clean water. |



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A Crane Plastics Company

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