

Clearview[®] Railing System Installation Instructions – OLYMPUS (Horizontal)

WHAT YOU WILL NEED:

- 24" Level
- Power drill, 1/8", 3/16" drill bits
- 1/2" and 9/16" sockets
- Tape measure
- Small vise-grips
- 5/32" hex wrench (for flat or elliptical top rail)
- Masking tape
- Non-abrasive cleaning cloth
- Acetone
- Caulking gun (for round top rail)
- 'C'-clamp (for flat top rail)
- Small Phillips screwdriver (for flat top rail)

Disclaimer: AGS Stainless, Inc. has its Clearview[®] Railing Systems designed by a professional engineer to meet the requirements of the latest national building codes (IBC, IRC). It is the responsibility of the customer to verify compliance with local governing codes. AGS recommends having a qualified entity review or design the supporting structure to ensure it is capable of resisting the loads imparted on it by the railing system.

Please read instructions thoroughly and in their entirety before beginning installation. These pages will address typical installations to wood supporting structure. Connections to concrete will be very similar. Some systems have custom connections that may require additional help.

*****If you have any questions at any time during the installation, do not hesitate to call us.***
We are here to help. You can reach us at (888) 842-9492, Mon.-Fri. 8-430 PST.**

Locate the box that contains the Packing List. Open each box and take an inventory of the contents. If the quantities do not match those on the packing list, contact us immediately.

Each post and top rail segment are etched to correspond to their ID numbers on the installation drawings. Posts are etched about an inch from the bottom; top rail segments an inch from end. Curved top rail pieces are not etched.

PHASE 1 - INSTALLING THE POSTS

SECTION 1: SIDE MOUNT POSTS (For top mount systems, go to Section 2)

- 1A. Begin your installation where designated on the drawings or at a corner/end post. If your installation is sloped (stairs, ramp), start at the low end. Unpack the posts and top rail segments for a small area according to the plan. Starting small in scope will allow you to get familiar with the system.
- 1B. Use the plan view to identify and locate the post; mark the location of the top mounting fastener per the detail.
- 1C. Drill a pilot hole with the 3/16" drill bit.
- 1D. Install the post with the top 3/8" lag screw.
- 1E. Plumb the post and drill the pilot hole for the bottom lag screw.

- 1F. Tighten the lag screws ensuring the post is plumb in all directions.
- 1G. If your railing system has an AGS round top rail, proceed to Phase 2: Section 3. For flat, elliptical or wood top rail, repeat the steps in Section 1 until all posts are installed. Then, proceed to Phase 2: Section 4 for AGS' flat or elliptical top rail; Section 5 for wood cap rail.

SECTION 2: TOP MOUNT POSTS

- 2A. Begin your installation where designated on the drawings or at a corner/end post. If your installation is sloped (stairs, ramp), start at the low end. Unpack the posts and top rail segments for a small area according to the plan. Starting small in scope will allow you to get familiar with the system.
- 2B. Use the plan view and detail to identify and locate the post. Orient it properly to the edge of the mounting surface.
- 2C. Drill a pilot hole with the 1/8" drill bit in one of the four mounting holes then install a 5/16" lag screw (finger tight).
- 2D. Install the remaining lag screws in the same manner. Plumb post and tighten all of the screws.
TIP: Centering a shim under the base plate will facilitate plumbing the post if surface is uneven.
- 2E. If your railing system has an AGS round top rail, proceed to Phase 2: Section 3. For flat, elliptical or wood top rail, repeat the steps in Section 2 until all posts are installed. Then, proceed to Phase 2: Section 4 for AGS' flat or elliptical top rail; Section 5 for wood cap rail.

PHASE 2 – INSTALLING THE TOP RAIL

SECTION 3: ROUND TOP RAIL (For flat or elliptical top, go to Section 4; for wood top, go to Section 5)



Each top rail joint has a male and a female part. Wipe down the mating surfaces with a clean cloth and acetone before assembling the connection.

- 3A. Find the proper rail component (i.e. straight segment, elbow, gooseneck) per the installation drawings. Apply a 1/8" bead of bonding agent to the inside of each open (female) end. Twist the component onto the receiving (male) end to ensure an even distribution of the bonding agent.
- 3B. Take the next post and, with a twisting motion, slide it into the open end of the top rail component. Secure following the steps in Section 1 or 2. **Note: Straight lengths of top rail will follow the pitch of the mounting surface, so leveling them is unnecessary.**
- 3C. Clean off excess bonding agent with acetone.
- 3D. Repeat steps in Section 1 or 2 and Section 3 until only the last post and top rail segment in the run remain.
- 3E. Proceed to Phase 3 for infill installation.

SECTION 4: FLAT / ELLIPTICAL TOP RAIL

- 4A. Begin with the top rail component that corresponds to the first post(s) installed and position it atop the post.
- 4B. Center the top rail on the mounting plate and clamp it to the post. **TIP: Placing a cloth between the clamp jaws and component will prevent marring the stainless steel.**
- 4C. Apply steady pressure at low speed and carefully drill a hole with the #18 drill bit into the underside of the top rail.
- 4D. Use the cutting tap to cut threads into the hole. Again, steady pressure and low drill speed. Install a #10-32 x 3/8" screw. Repeat on the other side of the post. If there is a splice, continue to Step 4E, otherwise repeat Steps 4B - 4D at the next post. **Note: Straight lengths of top rail will follow the pitch of the mounting surface, so leveling them is unnecessary.**
- 4E. Slide the patented two-piece splice block, holes down, into the open end of the top rail component.

- 4F. Align the holes of the splice block and the top rail and, with two set screws, spread the splice block just enough so that it stays in place.
- 4G. Slide the next component over the exposed splice block and finish the splice connection with two set screws as in Step 4F. Tighten accordingly to create a smooth transition on the top side of the top rail.
- 4H. Repeat Steps 4B-4G until only the last top rail segment in the run remains.
- 4a. Proceed to Phase 3 for infill installation.

SECTION 5: WOOD TOP RAIL



Your wood top rail should meet the requirements of your local Code. Talk to your top rail provider about wood species, shapes and screw size for attachment to the post. A cross section with a 1 ½" wide flat spot on the bottom allows for a nice connection at the post.

(Note: Hardware for attaching wood rail is not included).

- 5A. Install the wood top so that the full strength of the wood section is developed at each splice. AGS recommends consulting a wood professional.
- 5B. Proceed to Phase 3 for infill installation.

PHASE 3 – INSTALLING THE INFILL

SECTION 6: HORIZONTAL BAR

- 6A. Place the groups of bars in their proper place according to your installation drawings.
- 6B. Start at the installed end post. Slide in a plastic end (white) fitting into an end of each bar. In the other end, a splice (grey) piece.
- 6C. Slide the end with the splice piece into the top hole of the intermediate post a couple of inches. Now, swing the free end into position and slide it into the top hole of the end post as far as it will go.
- 6D. Install all remaining bars. If the next section is an end section skip to Step 6G.
- 6E. At the next group of bars, only slide a splice piece into one end and install the bar as in Step 6C. The open end will slide over the in-place splice piece. Push firmly to properly seat the bar.
- 6F. Repeat Steps 6A-6D until all the bars have been installed except at the last section in the run.
- 6G. If your system has a round top, go to Step 6J, otherwise continue to Step 6H.
- 6H. Remove the last post.
- 6I. Insert the end fittings into the bars as in 6B. Install the bars so that the ends with the end fittings are hanging in space.
- 6I. Maneuver the post into position while feeding in the free ends of the bars. If any of the fittings are too long, they can be trimmed with a utility knife. Reattach the post and fasten the top rail.
- 6J. Maneuver the post into position while feeding in the free ends of the bars and the last top rail segment. If any of the fittings are too long, they can be trimmed with a utility knife.

THANK YOU FOR CHOOSING AGS STAINLESS, INC.

We want to hear from you! Send us your feedback and photos to be included in our website's Customer Photo Album. If you have any questions or concerns, please do not hesitate to call us at (888) 842-9492 or email us at info@agsstainless.com.