CASCADIA RAILING SYSTEM
INSTALLATION INSTRUCTIONS

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.

It will be advantageous to view the installation video in its entirety. AGSstainless.com/cascadia

Open each box and take an inventory of the contents.

WHAT YOU WILL NEED:

- 3/16” x 12” Drill Bit
- Drill
- 1/2” Socket Ratchet
- 24” Level
- AGS Cutting Jig*
- Box Knife
- Measuring Tape
- Painter’s Tape
- 3/16 Allen Wrench

* Optional

STEP 1: MOUNT POSTS

1. Begin your installation at a corner whenever possible. Stairs and ramps should start at the top.

2. Use the Installation Guide plan & details to locate each post. Lay out the posts for a small area according to the plan. Starting small in scope will allow you to get familiar with the system. Orient each post properly to the edge of the mounting surface. (See Fig. A)

3. Drill a pilot hole with the 3/16” drill bit in one of the four mounting holes. Install a 5/16” lag screw (not quite snug).

Version 1.0
4. Install the remaining lag screws in the same manner while ensuring that the post remains plumb in all directions as the screws are tightened. (See Fig. B)

TIP: Centering a shim under the base plate will facilitate plumbing the post if mounting surface is uneven.

---

**STEP 2: INSTALLING THE TOP RAIL**

**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 posts. A minimum cross section with a 1 ½” wide flat surface on the bottom allows for a nice connection to posts.

Install the wood top rail so that the full strength of the wood section is maintained at each splice by using the Cascadia splice fitting or an equivalent.

---

**STEP 3: INSTALLING THE INFILL**

**Install Infill:**

1. Insert the end caps in the 5/8” tube end segments. (See Fig. C)
2. Starting at one end of the run, and on the bottom of the post, install all the horizontal bars before moving on to the next section. *(See Fig. D)*

3. Using the 3/16” allen wrench, snug the infill knuckle on the end post only. The remaining fittings should be left slightly loose until the remaining infill is installed.

4. Proceed onto the next section and install the horizontal bars as before.

5. Continue until all the infill is installed in the run.

6. Tighten infill knuckles at end posts before proceeding with the remainder of the infill knuckles. Tighten until the infill knuckle is secured in place.

**Note:**

Cutting of 5/8 tubing can be accomplished easily with a 24-18 tooth bi-metal hack saw, the AGS cutting jig will aid this task.

**INSTALLATION FOR STAIRS**

Locate the stair posts as per above and always keep the distance for the stair nosing constant.