

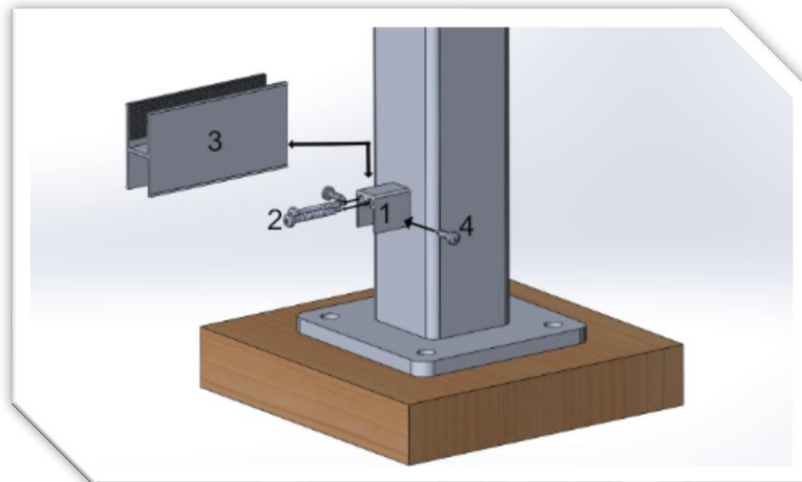
Attaching Rail Support & Lower Rail

Tools for Install

- ✓ Angle Finder
- ✓ Cut Off Wheel
- ✓ Cable Release Key
- ✓ Drill
- ✓ Impact Drill
- ✓ Level
- ✓ Masking Tape
- ✓ Power Miter Saw
- ✓ Razor Knife
- ✓ Roto Hammer with 3/8" concrete drill bit
- ✓ Safety Wear
- ✓ String/Laser
- ✓ Tape Measure
- ✓ Vice Grips / Cable Pliers
- ✓ 3/8" Drill Bit
- ✓ 9/16" Socket with adapter (Impact Drill Attachment)
- ✓ # 2 Phillips Bit
- ✓ # 2 Square Drive Bit

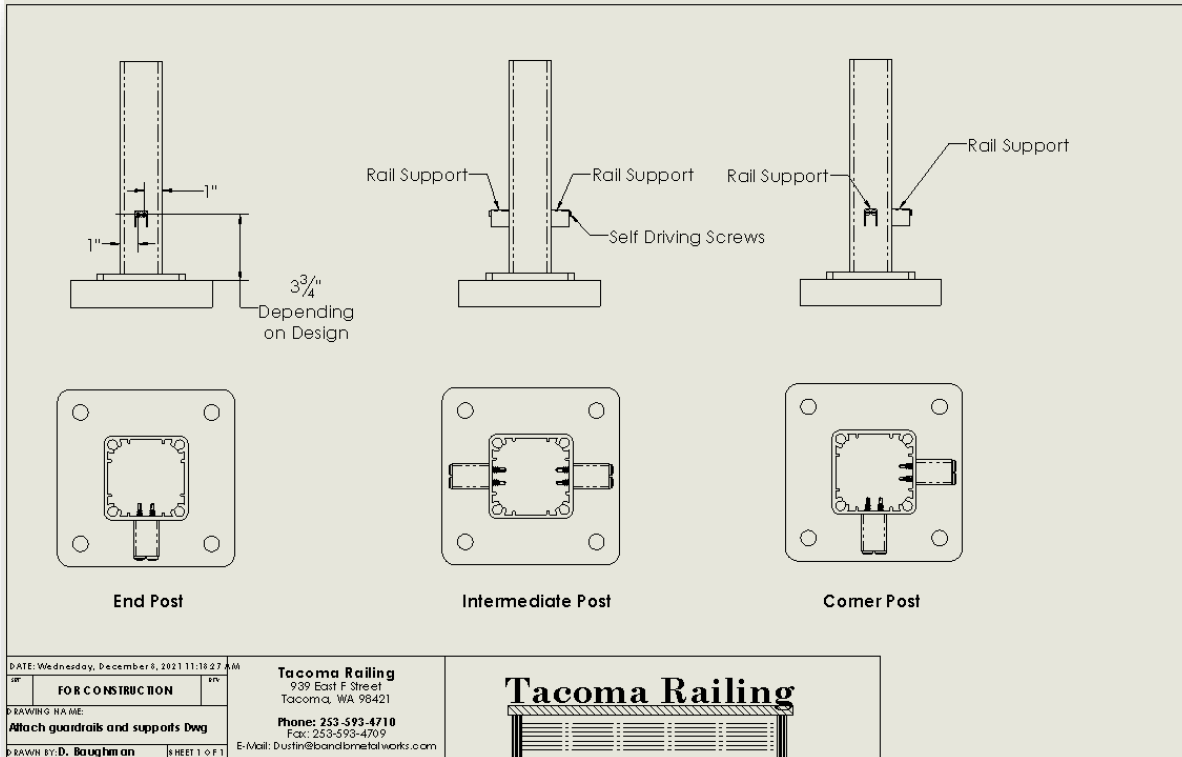
Below is a diagram showing how to attach a rail support along with the order in which to attach the parts. Please feel free to also check out our YouTube channel (Tacoma Railing) or our website's literature page for videos on attaching railing supports to help visualize this process better.

1. Rail Support
2. Square Self Driving Screws (Supply with order)
3. Lower Rail
4. Short Square Self Driving Screws (Supplied with Order)



Rail Support – End Post Layout, Intermediate Post Layout, Corner Post Layout

Below are the different possible post layouts for attaching the rail supports. Note that the orientation of rail support does not change when being attach to the top or bottom of the post assemblies. The only thing that is subject to change is the height of rail support which is driven by design intent of rail (lower rail support to not exceed four" max).



Attaching Rail Support

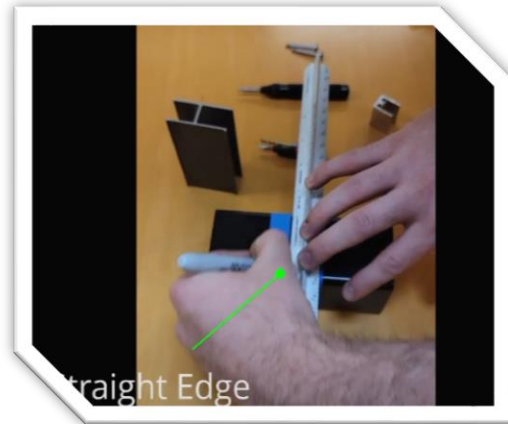
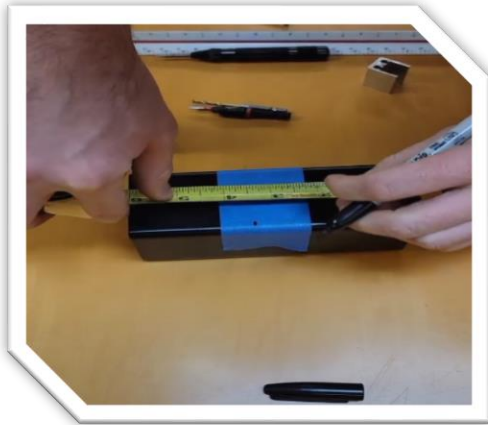
Step one (Masking Tape):

Refer to your install drawing for your railing system and locate the dimension for location of rail support. Which is label above as 1. After referring to the dimension provided in your drawings, use masking tape to mark off where the rail support will should be attached. This is to help with laying out location of holes and help protect the paint on your post assemblies.

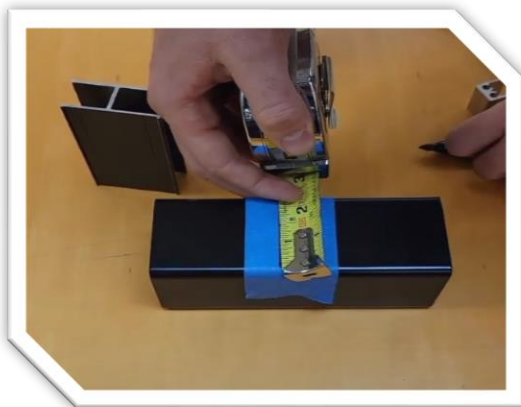


Step two (Measuring Tape):

Use the dimensions given for your rail layout and whole location using tape measure and Sharpe to mark the location of center of holes. Making two small marks on the edges of tape grab a straight edge and connect these two points forming a straight line.



Next on the straight-line mark two more point. First point is going to be located on the straight line, 1 inch off the right face of post. Second line is going to also be located on the straight line but 1 inch from the opposite face.

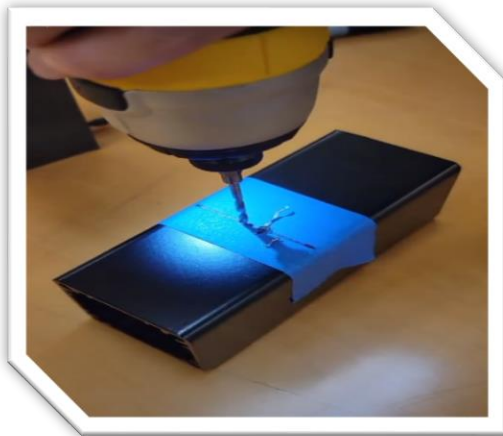


This will give you the location of your holes that will need to be pre-drilled to attach the rail support.

Step Three (Center punch): Using a center punch, carefully mark the two points where they intersect the straight line. The center punch gives the drill bit a spot to rest which allows for a cleaner pre-drill.



Step Four (Predrill): Now using a drill and the center punch holes from previous step; drill two holes. After drilling out the holes where you previously had center marked you can remove the masking tape.



Step Five (Impact drill and self-drilling screws):

(Note: I left the tape on to give better contrast for visual aid, please remove the tape prior to this step.)

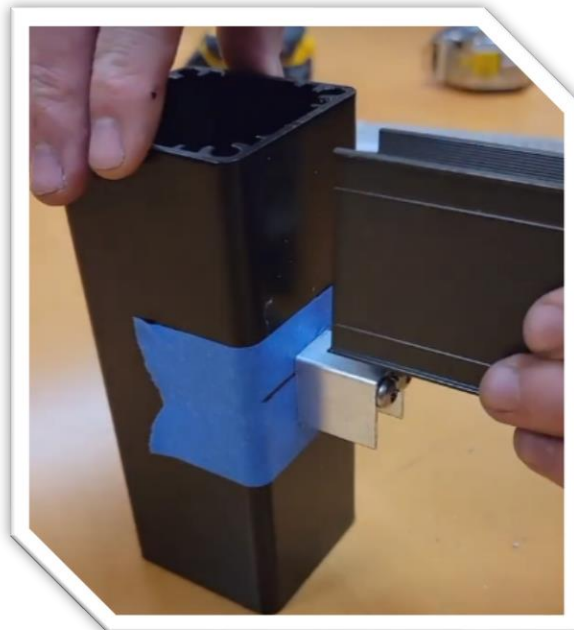
Line up your rail support holes over the holes that you drilled in the previous steps. Make sure to reference the figure on page 1 for orientation of rail support if unclear. (Information continued on page 5)



Use your impact drill, #2 square bit head and self-driving screws to set the support rail in place. While tightening keep rail support as straight as possible.

Step 6 (Attaching lower rail or top rail after rail support):

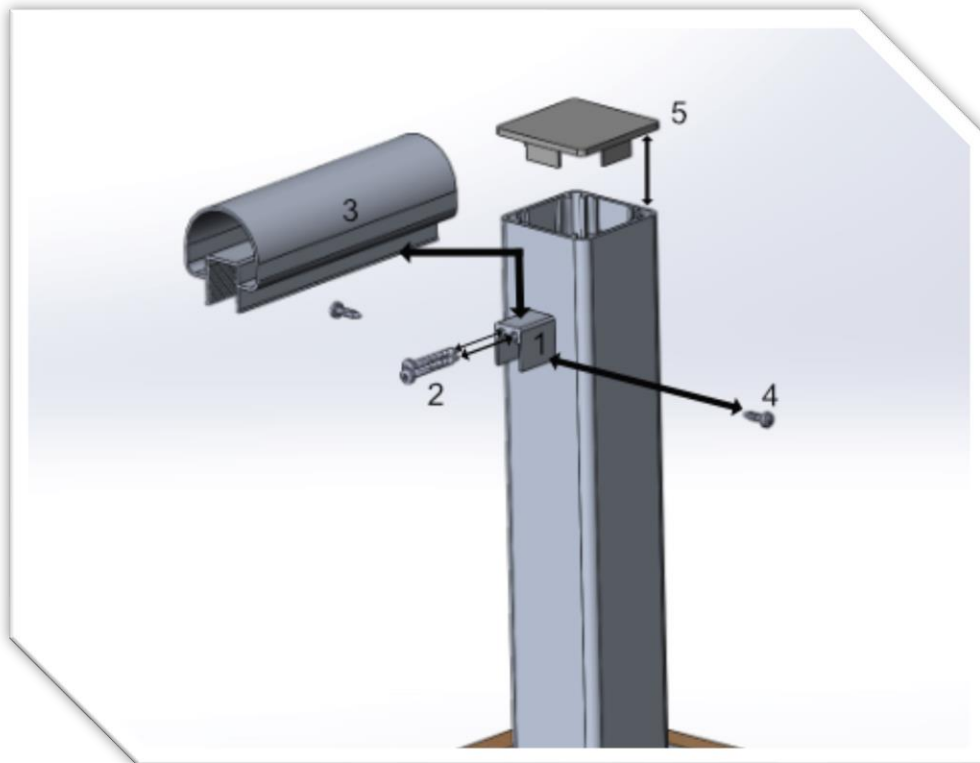
Now just use the shorter self-driving screws we have provided to set your lower rail or top rail if your top rail uses rail support.



Attaching Guard Rail to Rail Support

Below is a diagram showing how to attach a rail support to a top rail. Please feel free to also check out our YouTube channel (Tacoma Railing).

1. Rail Support
2. Square Self Driving Screws (Supply with order)
3. Round Guardrail
4. Short Square Self Driving Screws (Supplied with Order)
5. Post Cap



Above are the same process as previous steps. Please reference drawing provided for you railing to know the proper location for the upper rail supports.