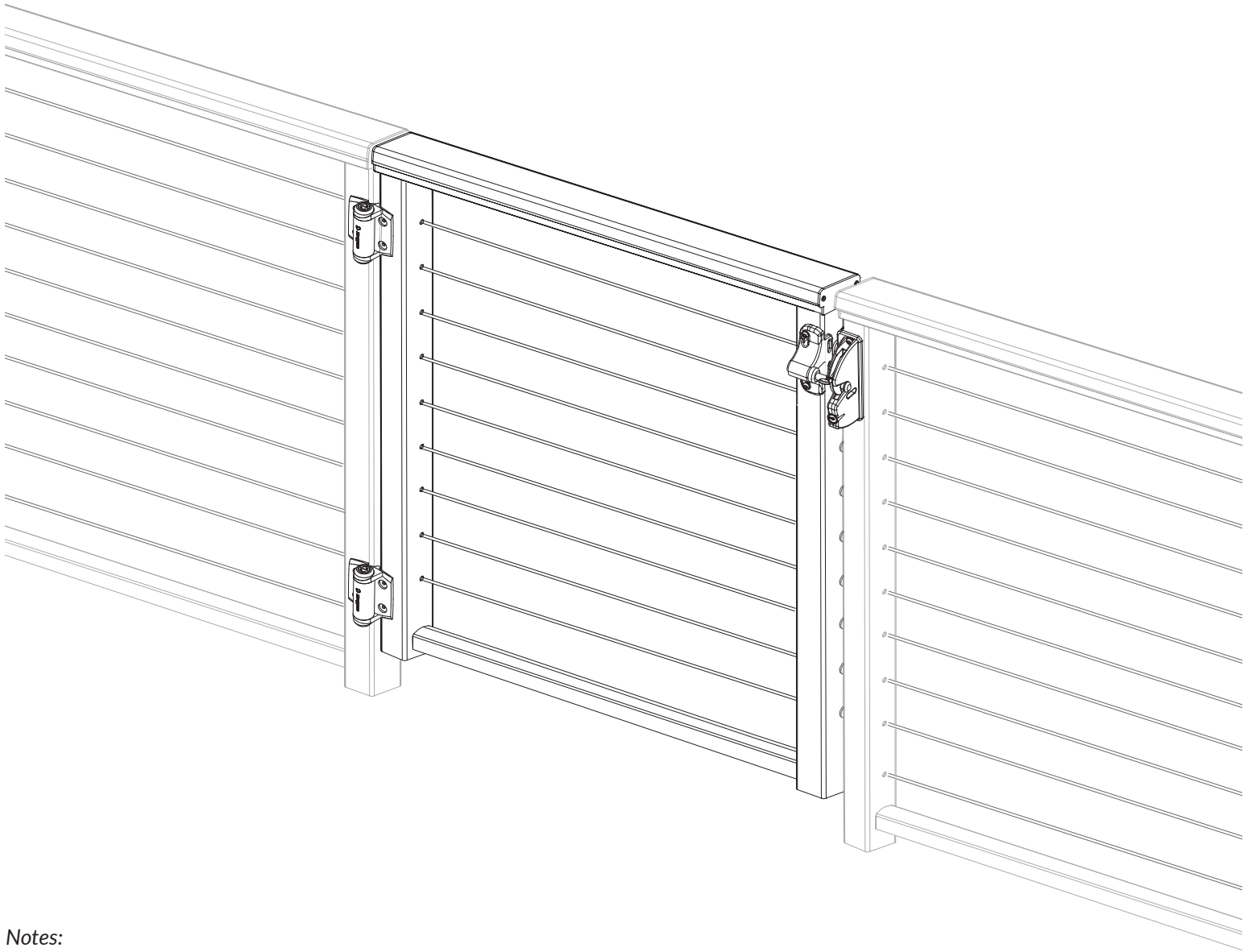


DesignRail® Gate with Horizontal CableRail Infill

Installation Instructions

Gates are manufactured per project requirements, specific to the system height and opening width. Some projects may require a double gate, requiring a cane bolt on one side. Gates are available in a variety of infill and top rail options to match or complement your railing.

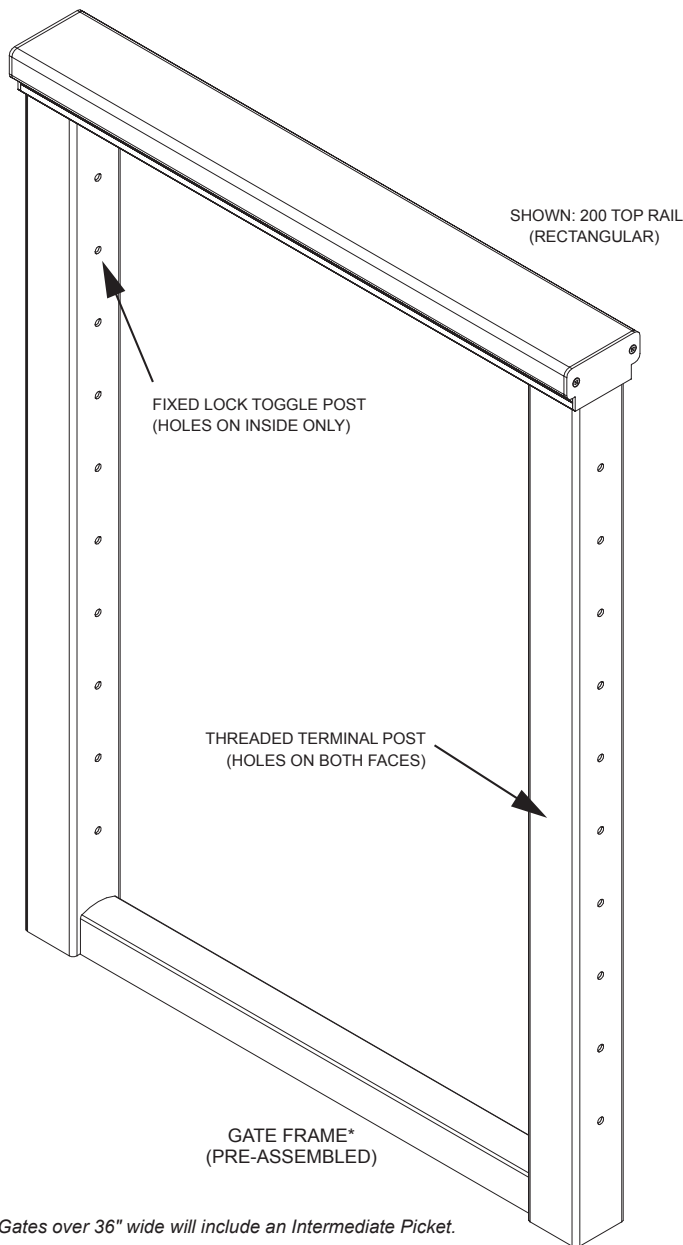


Notes:

- 1) Prior to beginning installation, verify that all parts have arrived and that they match the packing list, and thoroughly review all of the installation instructions.
- 2) Consult local building code for all railing construction requirements in your area.
- 3) For projects with multiple infill options refer to additional installation instructions and documents, as needed.
- 4) For complete information on installation, care & maintenance, warranty, and product registration, visit feeneyinc.com

Step 1 Gather Gate Components & Tools

Components parts (components may vary depending on project).

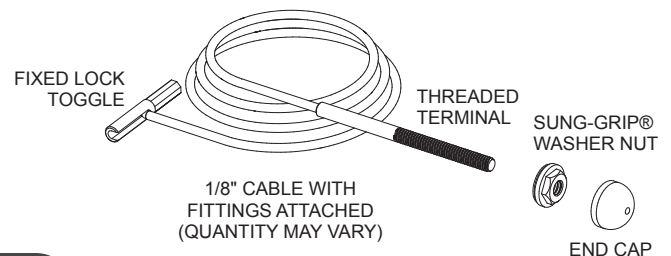
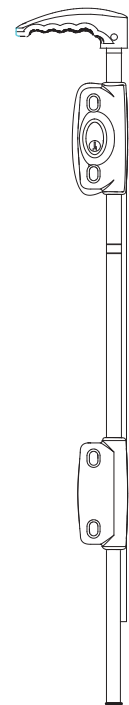
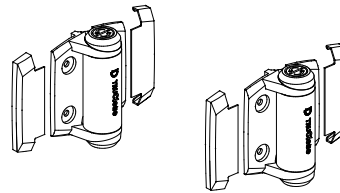
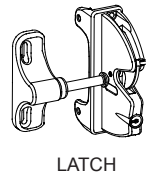
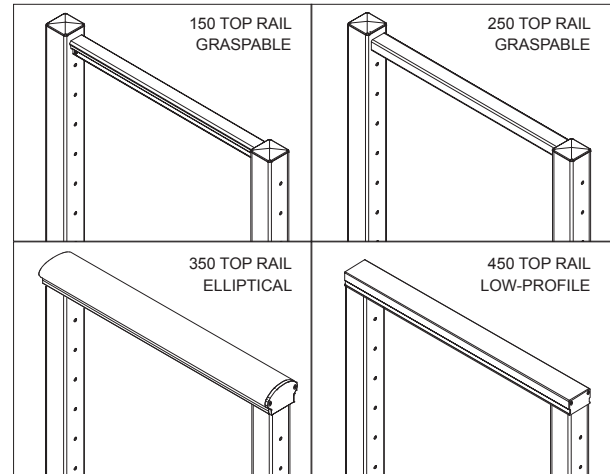


*Gates over 36" wide will include an Intermediate Picket.

TOOLS NEEDED:

- Safety glasses
- Pencil
- Level
- Measuring tape
- Small file
- Electric drill
- #2 square-drive bits
- 5/32" Drill Bit
- Vise-Grip Pliers
- Pliers
- 7/16" Wrench
- 2 Clamps (8" opening)
- Shims
- Flat Head Screwdriver
- Grinder / Hacksaw

OTHER GATE TOP RAIL OPTIONS



Step 2 Install Gate Infill (Horizontal CableRail)

Horizontal CableRail infill must be installed before attaching the gate.

Each cable comes with a Fixed Lock Toggle (FLT) pre-attached to one end. This fitting rotates inside the gate post to lock the cable in place.

Pre-bend each cable at the fitting to help with it "flipping" open once inserted into the post.

Insert FLT fitting into the gate post that has holes only on one side. Pull the cable until you feel the FLT fitting rest against the inside post wall.

(See Figure 2.1)

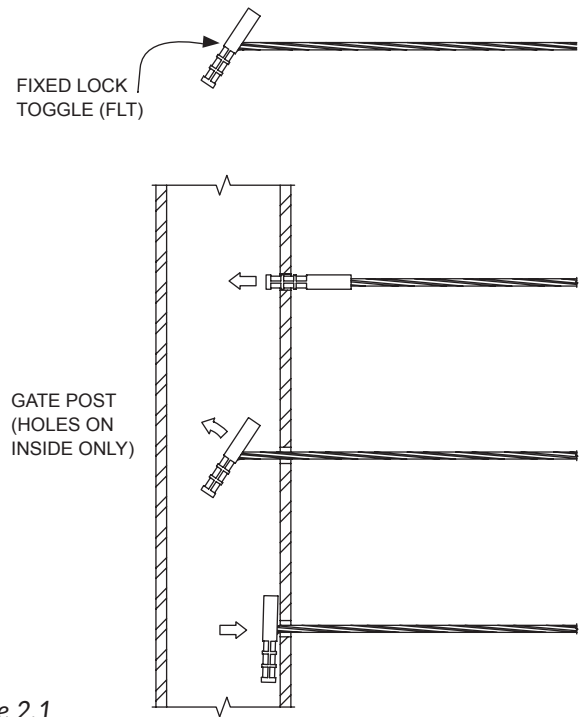


Figure 2.1

The cable also comes with a Threaded Terminal pre-attached to the other end.

Insert the Threaded Terminal fitting through the opposite post. Slide a Nylon washer and a Snug-Grip® Washer Nut onto the terminal (see Figure 2.2). Spin the nut 2 full turns.

Tension the cables by holding the Threaded Terminal shaft with Vise-Grip pliers and spinning the Snug-Grip® Washer Nuts with a wrench. A Feeney Tension Gauge may be used to check uniform tension.

Use hacksaw, reciprocating saw, or electric grinder with cut-off disk to saw off the excess threads as close to the Snug-Grip® Washer Nut as possible. Touch-up with electric grinder.

Snap on end caps over the Snug-Grip® Washer Nuts. Feeney SteelProtect™ can be applied for lasting protection of stainless steel cable and parts.

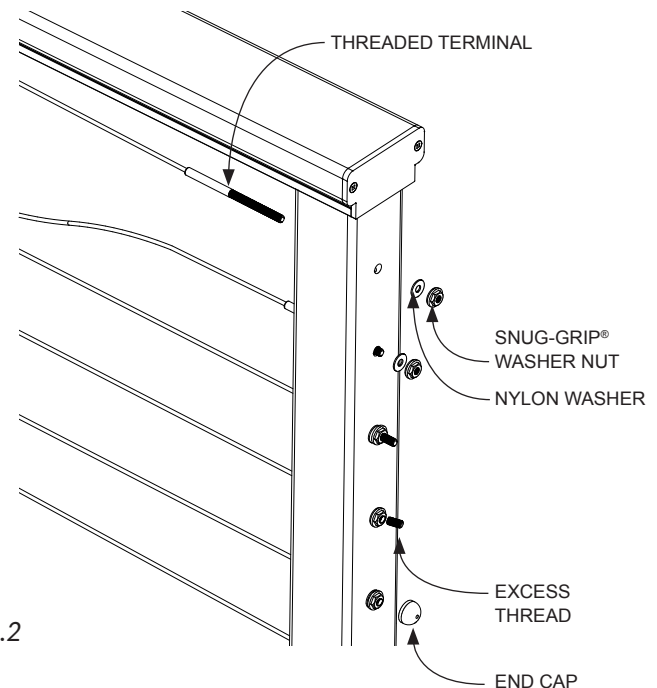
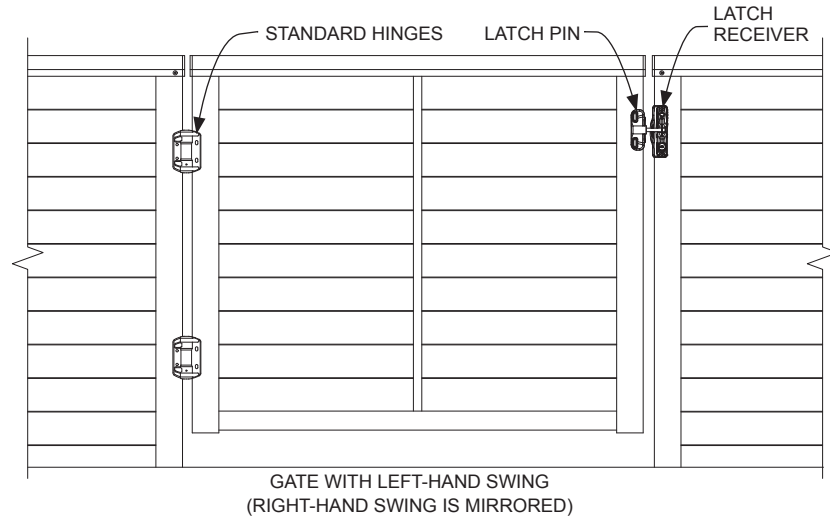


Figure 2.2

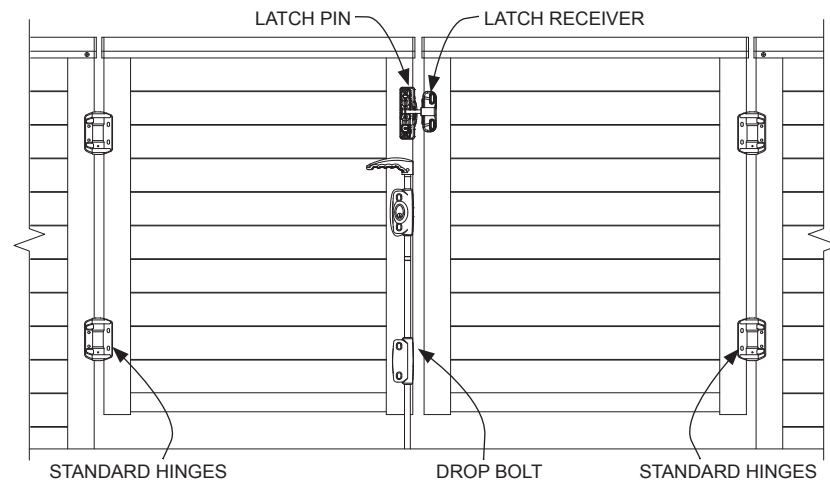
Gate Options

Your project will fall into one of several gate types and configurations. Gates can be installed for either left- or right-hand swing. Depending on the Top Rail and gate configuration, your project will include either Standard or Heavy Duty Hinges.

Single Gate

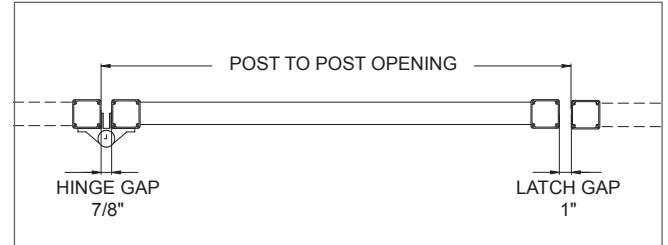


Double Gate with Drop Bolt

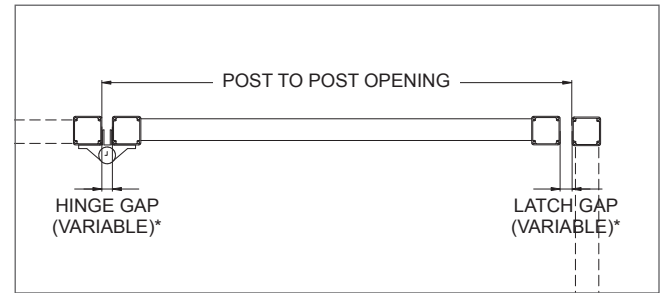


Gate/Railing Configurations

BOTH SIDES PARALLEL



ONE SIDE PERPENDICULAR*, ONE SIDE PARALLEL



BOTH SIDES PERPENDICULAR*



Hinge & Latch Post Gaps

*In gate configurations where one or both sides are perpendicular, larger gate gaps are required for Top Rails that protrude over the posts (Series 200, 350, 450, and 250 with drink rail). The larger gaps allow the gate to open completely (see Figure 3.2).

Standard Hinges are used for smaller post gaps. Heavy Duty Hinges are used for larger post gaps. See chart on next page.

Step 3 Install Gate Hinges

When placing the gate for hinge installation, we recommend using shims between the posts and clamps (with an 8" opening) to hold the gate in place. Spacer blocks between the gate and the deck will also help with gate positioning (see Figure 3.1).

The hinge and latch side post gaps depend on the Top Rail specified and the gate configuration. See the following chart to determine the post gaps for your project:

GATE CONFIG.	TOP RAIL	HINGE GAP	LATCH GAP
1 OR 2 SIDES PERPENDICULAR	150	$\frac{7}{8}$ "	1"
1 OR 2 SIDES PERPENDICULAR	250 NO drink rail	$\frac{7}{8}$ "	1"
1 OR 2 SIDES PERPENDICULAR	250 with drink rail	1"	1 $\frac{1}{4}$ "
1 OR 2 SIDES PERPENDICULAR	350	1"	1 $\frac{1}{4}$ "
1 OR 2 SIDES PERPENDICULAR	450	1"	1 $\frac{1}{4}$ "
BOTH SIDES PARALLEL	ALL	$\frac{7}{8}$ "	1"

NOTE: If your project has a larger hinge gap, your order should include Heavy Duty Hinges, rather than Standard Hinges.

Position hinges on the gate post, about 3" down from the top and up from the bottom. Standard Hinges are centered between posts. Heavy Duty Hinges must be offset to allow the gate to open completely (see Figure 3.2).

Mark screw hole locations and pre-drill holes using a 5/32" drill bit (see Figure 3.3).

Install each hinge to the Gate using two screws and two flat washers.

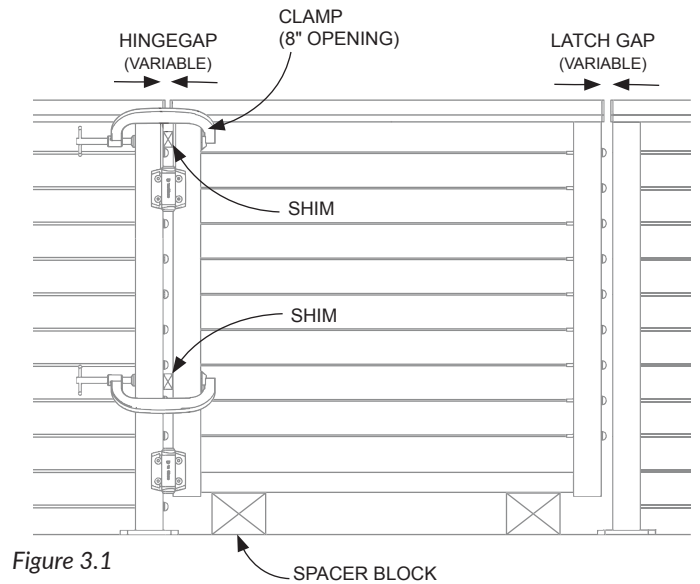


Figure 3.1

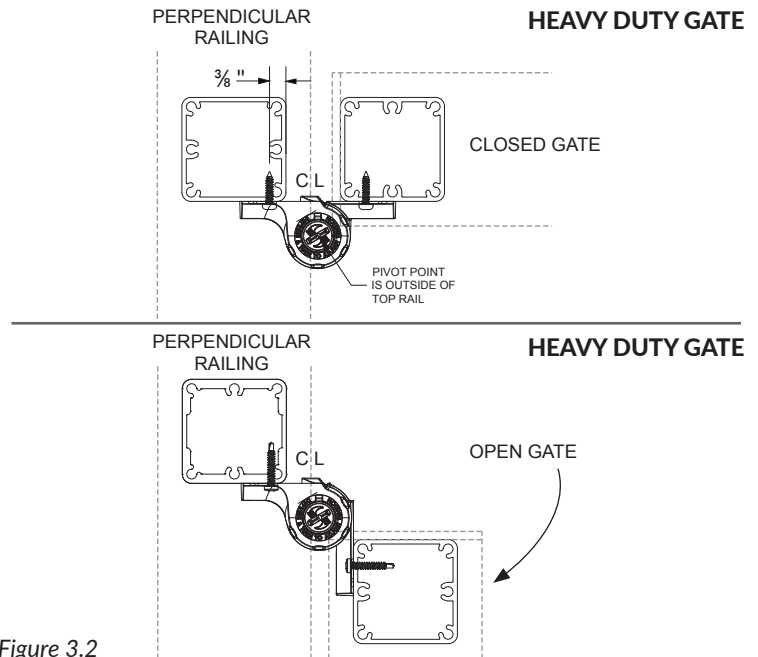


Figure 3.2

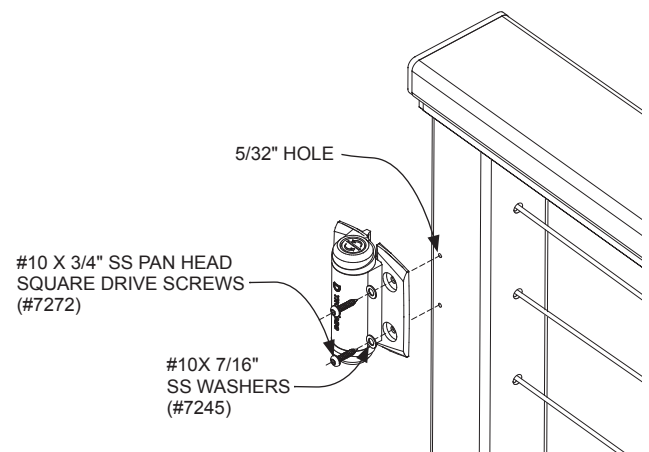


Figure 3.3

Step 4 - Tension and Cover Hinges

Gate hinges are spring loaded to and can be adjusted to create a self closing gate using a flat head screw driver.

To adjust the hinge spring tension, place a screw driver in the stoled groove in top or bottom of the hinge. Press down on the screwdriver, turn counter-clockwise and release (see Figure 4.1).

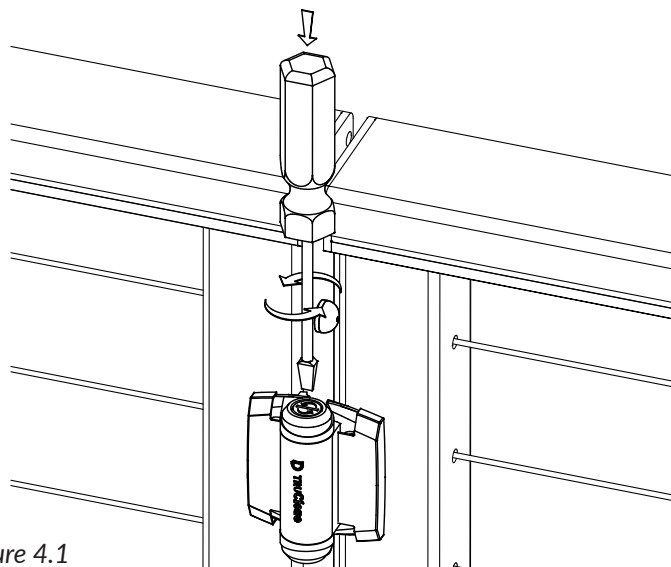


Figure 4.1

Trim covers are designed to snap over the hinge to cover the screws.

Hook the trim cover on the end of the hinge and swing it to cover the screws (see Figure 4.2).

To remove the trim cover you will need a flat head screw driver, simply place the head of the screw driver close to one end and pry the cover away of the center of the hinge.

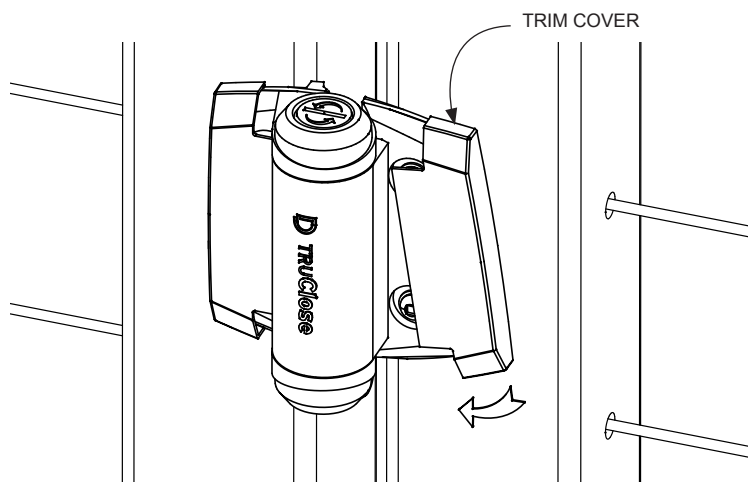


Figure 4.2

Step 5 - Install Latch

Place the latch (using the backing plate for metal railings) in the desired location on the railing post. Mark screw hole locations.

Using the 5/32" drill bit, pre-drill holes in the gate post. Secure the locking part of the latch with the provided hardware (see Figure 5.1).

Position the other half of the latch on the gate post with the rod in the latched position. Mark screw hole locations on the adjacent post - we recommend marking in the middle of the slot so it can be adjusted as it may need to later.

Pre-drill holes using the 5/32" drill bit. Secure with the provided hardware (see Figure 5.1). For more detail, reference the included manufacturer's instructions.

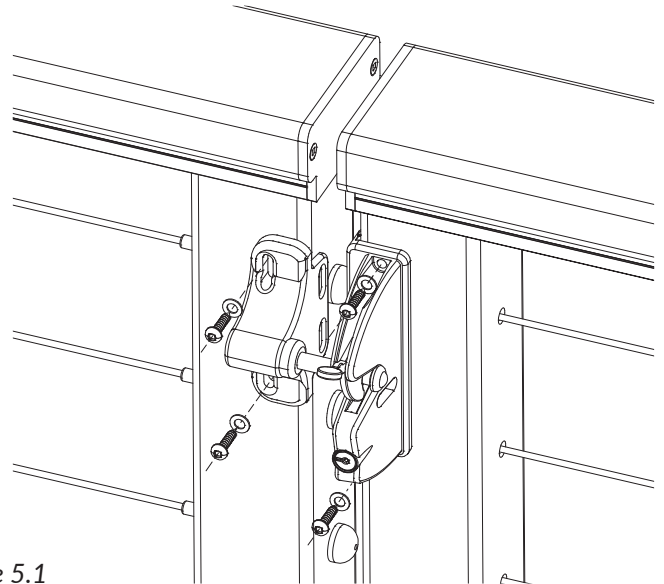


Figure 5.1

Step 6 - Install Drop Bolt (optional)

Locate drop bolt on the inside of the gate, so that the bottom of the bolt rests on the ground surface. Clamp the bolt into place (see Figure 6.1).

Mark a circle on the ground around the rod and drill to a suitable depth.

Place drop bolt back on the gate with the rod inserted. Mark mounting holes on the post in both brackets.

Drill 5/32" pilot holes and attach the brackets using the supplied screws. Cover hardware with included caps.

For more detail, reference the included manufacturer's instructions.

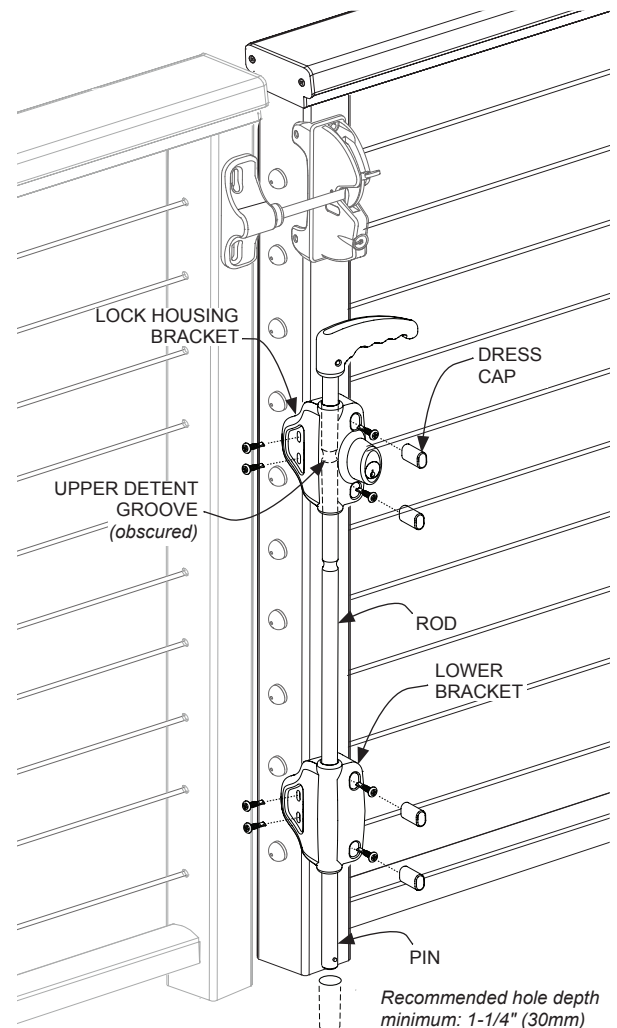


Figure 6.1



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