Glass Railing STORE

STEP-BY-STEP
DIY GUIDE

SPIGOT-MOUNTED GLASS RAILING · 12 MM GLASS

Glass Railing Installation Guide

Everything you need to mark, mount, level and finish your glass railing, in five clear steps, with diagrams for wood and concrete.

Safety & tools | 5 installation steps | Care & warranty | Wood & concrete details



See the view, not the railing!

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VIDEO GUIDE

Watch the install videos

Scan or tap

Need a hand?

Questions before or during your install? Call **+1 (855) 452-7715** or email **info@glassrailingstore.com**.

GETTING READY

Before you begin

Three checks to do before you take out the drill.

01

Inspect your delivery

Check every package for shipping damage and count the pieces against the packing list. Report any damage or missing parts to our customer support within **3 days** of delivery, before you install the glass.

02

Follow your local building codes

Make sure your installation complies with your local building codes. The Glass Railing Store is not responsible for code compliance, and returns are not accepted for non-compliance.

03

Handle glass panels with care

Glass panels are a **two-person lift**. Never let the edge of a glass panel touch a hard surface such as concrete.



Spigot with base plate, base cover and adjustment plate (shim): check every part against your packing list.

BEFORE YOU START

Safety first

Glass panels are heavy and the job involves drilling. Take these precautions every time you work on your railing.

Wear PPE

Safety glasses, gloves and sturdy footwear.

Never lift glass alone

Handle glass panels with care, always with a second person.

Keep the area clear

Remove obstacles and debris to prevent tripping hazards.

Use good tools

Use properly maintained tools and follow the manufacturer's guidelines.

Drill with care

When drilling, avoid damaging underlying structures.

CHECKLIST

Tools & materials

Power drill

Choose the appropriate one

Level

Useful for adjustments

Measuring tape

Any measuring tape

Screws

5/16" × 3" lag bolts
or
1/4" × 2-5/8" anchors

Pencil

Always useful

Drill bits

1/4" drill bit

Glass

12 mm tempered glass

Hardware

Spigots and connectors

Fasteners by substrate. The wood details on page 10 show lag bolts; the concrete details on page 11 show concrete screw anchors. Each detail gives its fastener size.

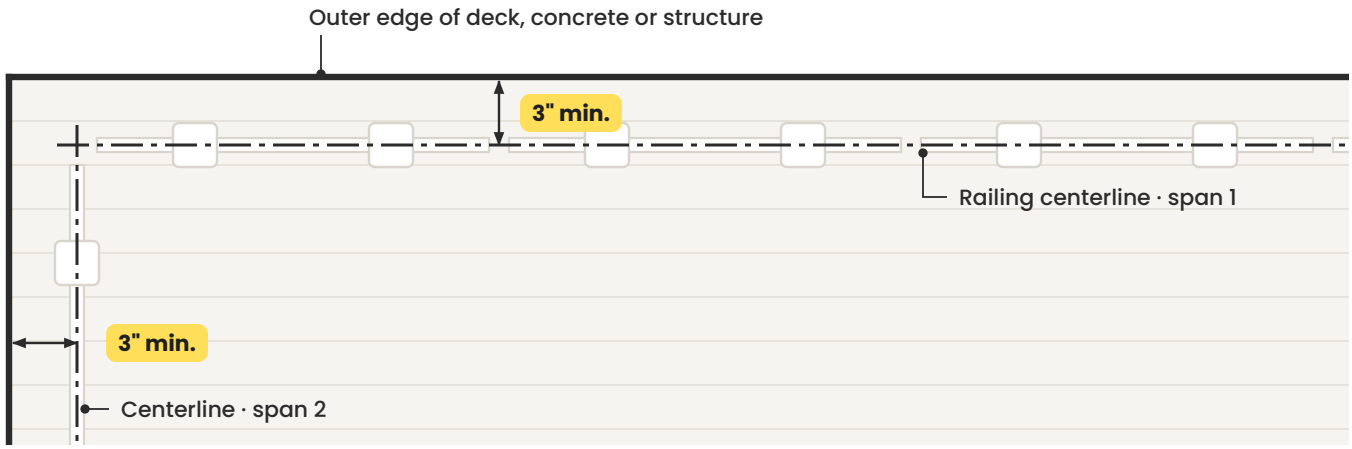
STEP 1 OF 5

1 Mark the centerline

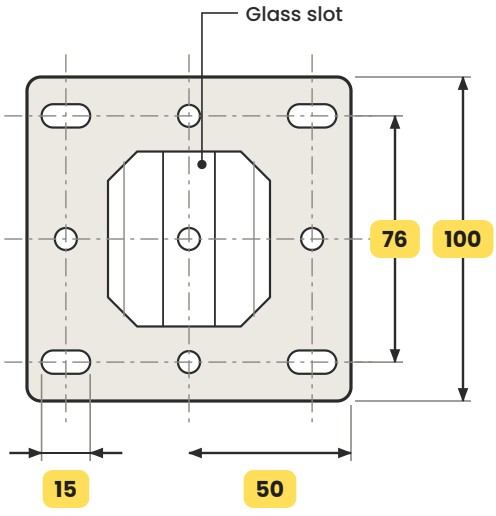
Mark the railing centerline along the entire span, positioned **3" (minimum)** in from the outer edge of the deck, concrete or structure.

If your railing has several sections, accurately mark the centerline of each span. Good alignment now ensures a smooth installation later.

3" min.
from the outer edge of the deck, concrete or structure to the railing centerline



Plan view. The dash-dot line is the railing centerline, one per span. The outlined spigots and glass show where the railing will sit later.



Dimensions in mm

Spigot base plate, top view. 100 mm square plate; hole rows 76 mm apart; corner slots 15 mm long; 50 mm from the centre of the plate to its edge.



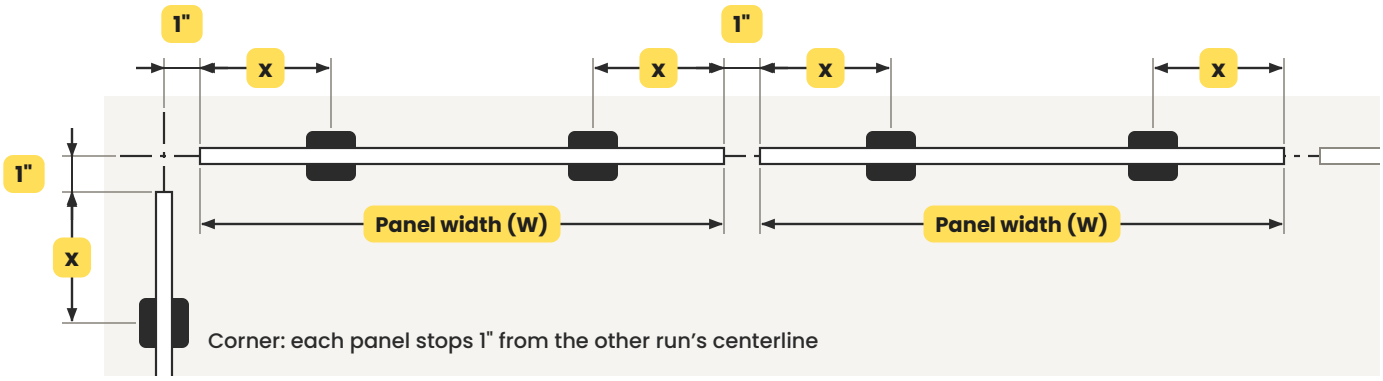
Spigots lined up on one straight centerline, set in from the edge of the deck.

STEP 2 OF 5

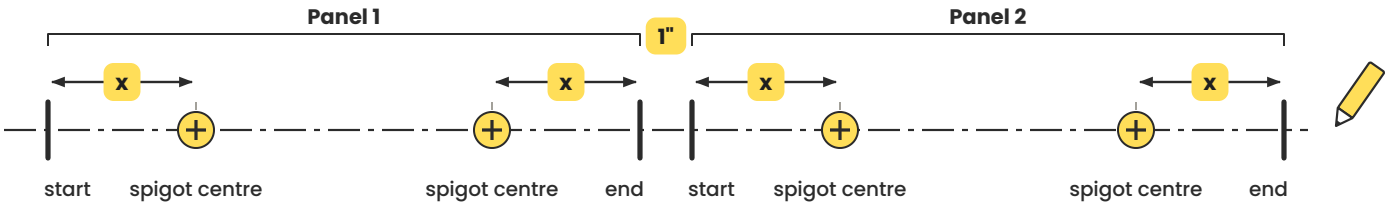
2 Mark the spigots & glass

Use your plan to find the position of each glass panel. Along the railing centerline, mark the start and finish of every panel. Leave a gap of about **1"** between panels (anything from **3/4" to 2"** is OK). At a corner, each panel stops **1"** from the centerline of the other run.

Then mark the spigot centres: the centre of each spigot sits at **25%** of the glass panel width from each end of the panel (**x** in the drawings).



Plan view. Panels at a corner and along a run, with the spigot positions (x) and the 1" gaps.



Marks on the centerline. First mark the start and end of each panel, then measure x in from each end to mark the spigot centres.

x = 25%	of the glass panel width, from each end of the panel to the spigot centre
≈ 1"	gap between panels (3/4" to 2" is OK)
Example	For a 48" wide panel, x = 48" × 25% = 12": spigot centres 12" in from each end.



Matte-black spigots holding the glass on a wood deck.

STEP 3 OF 5

3 Install the spigots



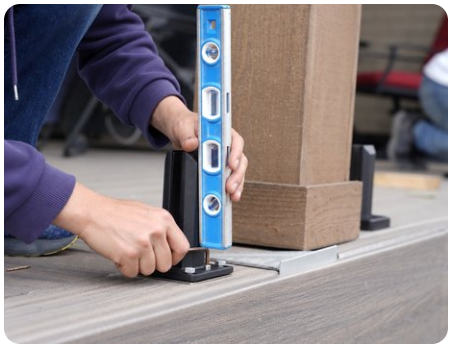
3a Place and align

Place the spigot on top of the adjustment plate. Align it along the railing centerline and its reference mark.



3b Pre-drill and fasten

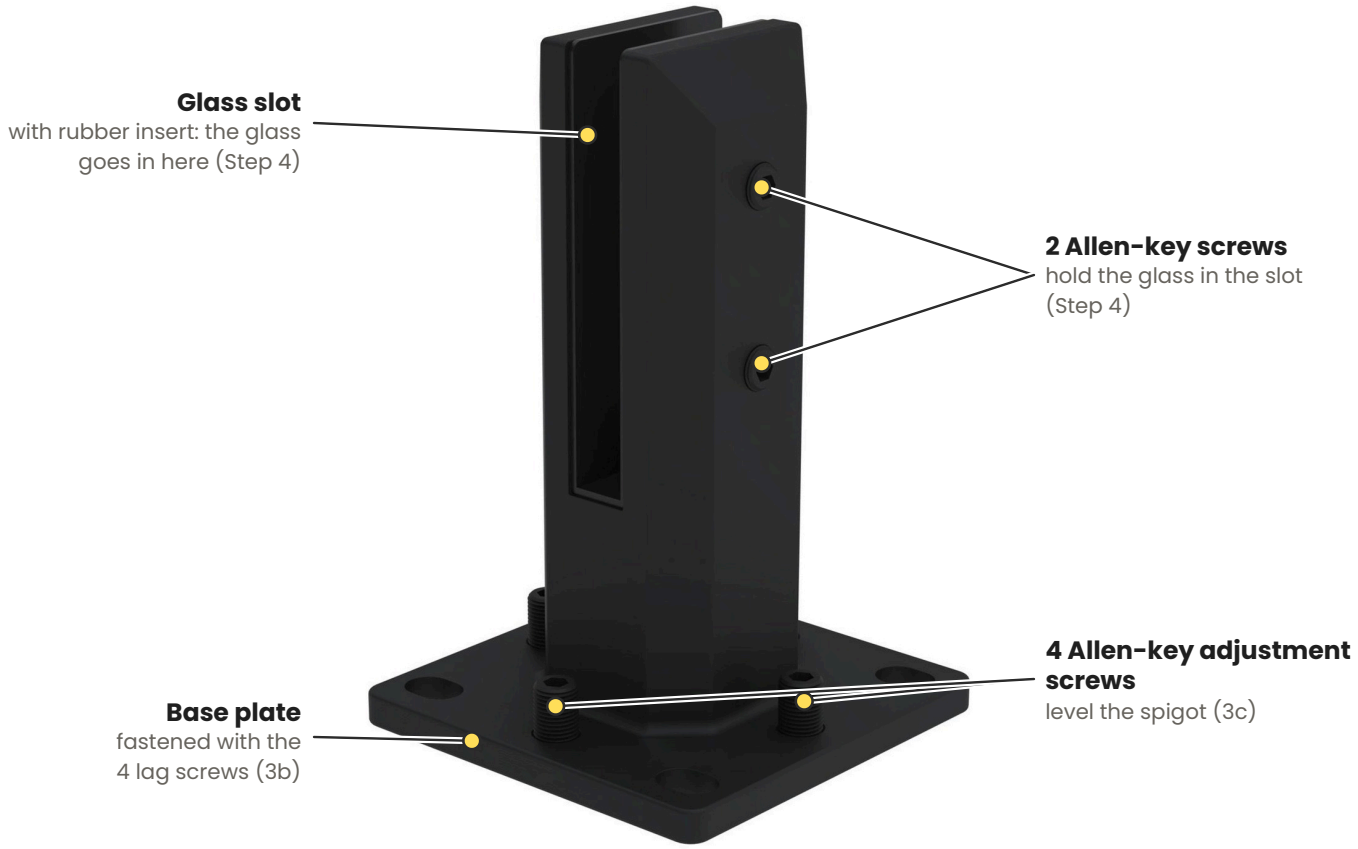
Pre-drill the holes for the lag screws with the appropriate drill bit size. Insert the **4 lag screws** into the pre-drilled holes to hold the spigot in place.



3c Level, then tighten

Level the spigot with its **4 Allen-key** adjustment screws, then tighten the 4 lag screws firmly. Check with your level: a level spigot means fewer adjustments later.

YOUR SPIGOT, PART BY PART



The 6" engineered spigot, shown in matte black (also in brushed stainless). It sits on the adjustment plate; the 4 lag screws fasten the base plate, the 4 Allen-key adjustment screws level it, and the 2 Allen-key screws on the side hold the glass.

STEP 4 OF 5

4 Secure the glass panels

1

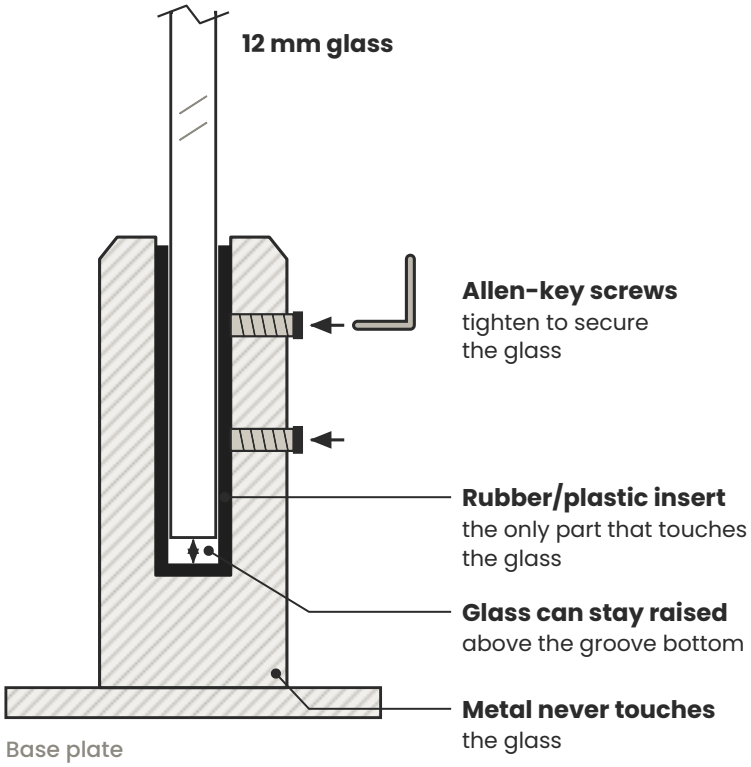
Place the glass panel into the spigot. Make sure the glass touches **only the plastic/rubber insert** inside the spigot, **never the metal**.

2

Secure the panel by tightening the **Allen-key screws** in the spigot.

3

The glass does not need to touch the bottom of the groove in the spigot. It can stay raised if you need room for adjustment.



Section through a spigot. The glass rests on the rubber/plastic insert and the Allen-key screws press it in place.



A 12 mm glass panel held in a black spigot.

Glass to rubber only

The glass must never touch the metal of the spigot.

Two-person lift. Never lift a glass panel alone, and keep its edges off hard surfaces such as concrete.

STEP 5 OF 5

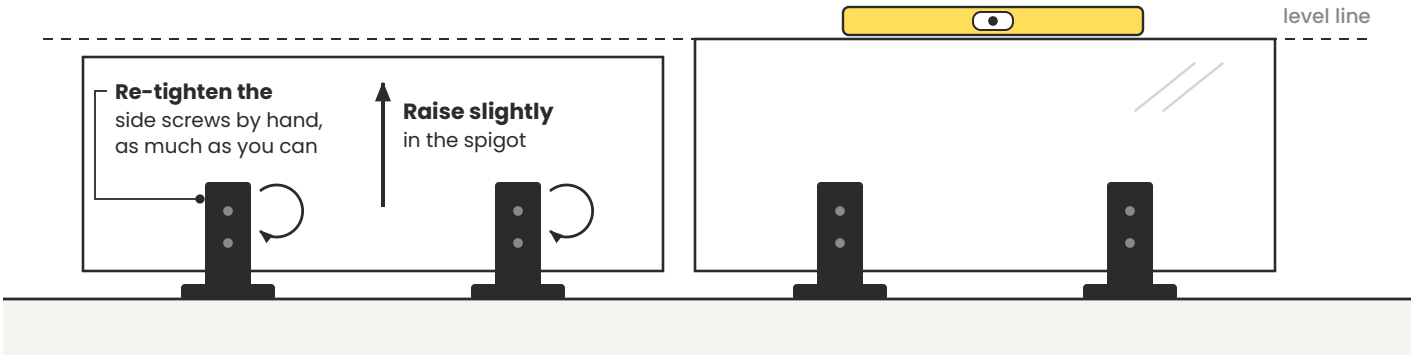
5 Finishing touches

5a Level every panel

One of the most important steps is making sure all your glass panels are level. To adjust a panel, raise the glass slightly in the spigot, then re-tighten the screws on the side of the spigot.

5b Hand-tighten the side screws

Make sure every glass panel is secure by tightening the screws on the side of each spigot as much as you can by hand.



Elevation. Raise a low panel slightly in its spigots until its top meets the level line, then re-tighten the side screws.

5c Fit the connectors

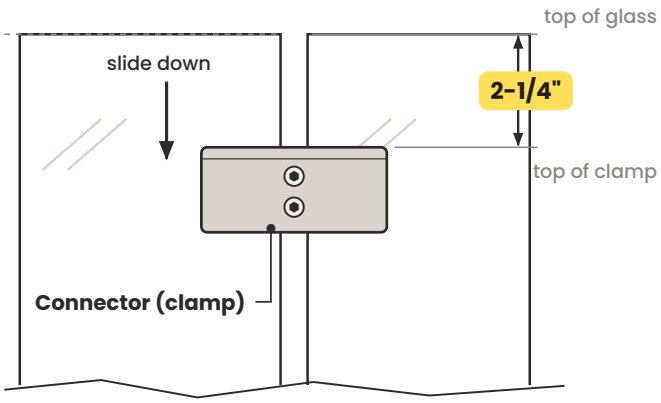
Place the connector at the top of the glass or lower, depending on your preference.

- Loosen the Allen-key screws, then slide the clamp down into place.
- Set the clamp at the height you want. We recommend **2-1/4"** from the top of the glass to the top of the clamp.
- Hand-tighten the inner face of the fixed clamps.



2-1/4"

recommended from the top of the glass to the top of the clamp



Connector between two panels. Recommended position: 2-1/4" from the top of the glass to the top of the clamp.

AFTER INSTALLATION

Care & maintenance

Clean the glass whenever it gets dirty, or about **once a year**. A power wash is fine and should be more than enough.

Clean-glass tip
Treat your glass with Rain-X to help it stay clean for longer.



PEACE OF MIND

Warranty information

At The Glass Railing Store, we provide the highest-quality products, with a warranty covering both hardware and glass to ensure customer satisfaction.

10 YEARS

Hardware: no-rust guarantee

Our hardware comes with a 10-year no-rust guarantee.

Glass

Free from manufacturing defects

Our glass is guaranteed to be free from manufacturing defects, meticulously inspected and safely delivered.

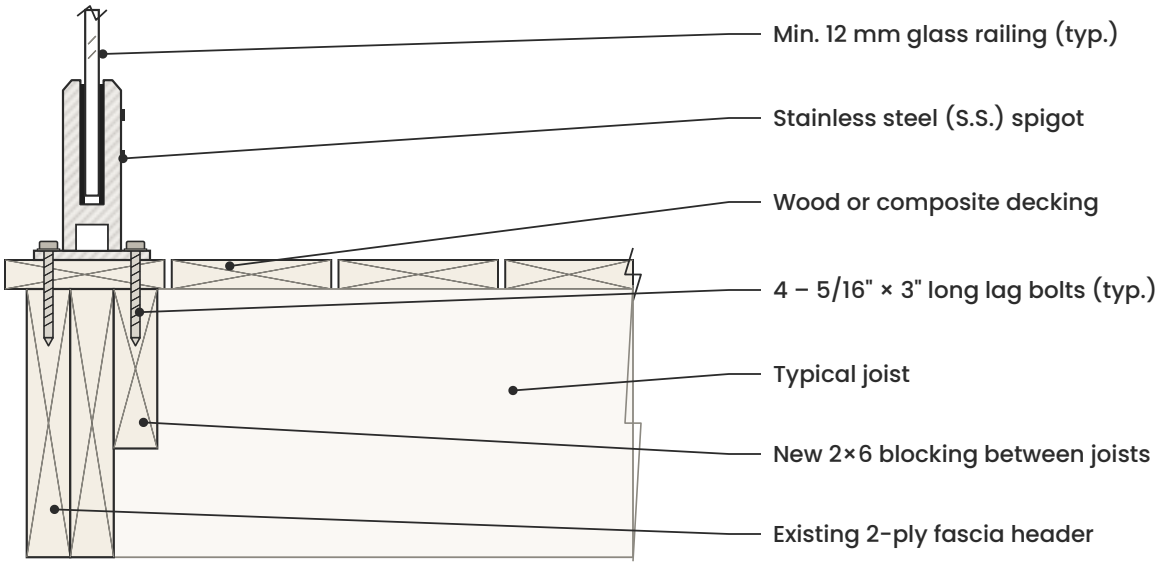
Questions about your warranty? Call +1 (855) 452-7715 or email info@glassrailingstore.com.

REFERENCE DETAILS

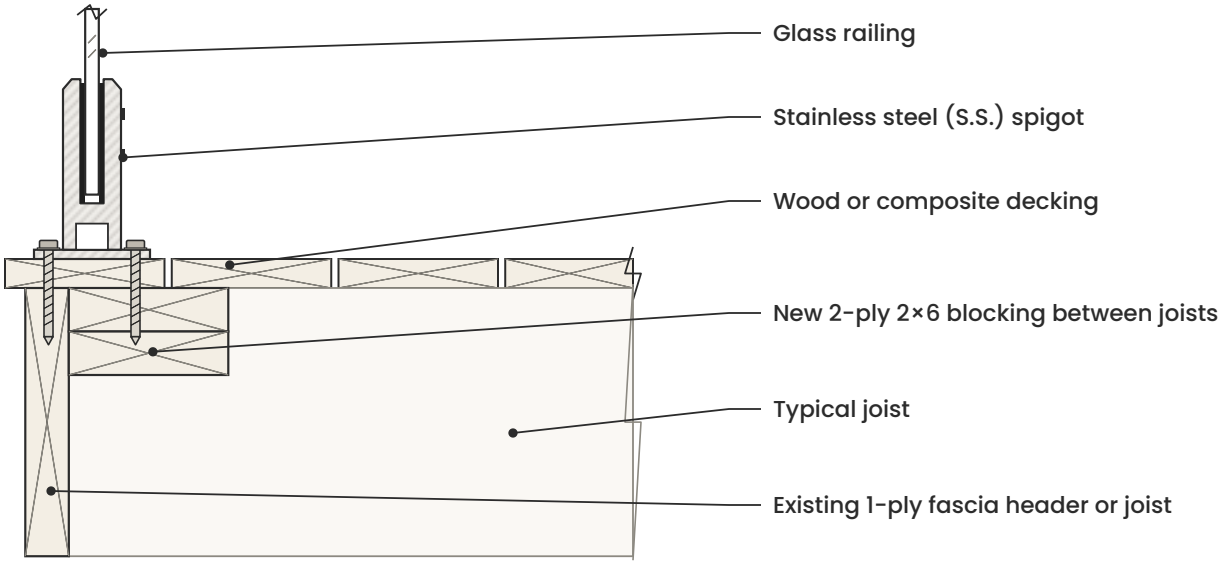
Installation on wood

Typical sections for a spigot fastened to a wood or composite deck, for two kinds of existing framing.

A Existing 2-ply fascia header, with new 2×6 blocking



B Existing 1-ply fascia header or joist, with new 2-ply 2×6 blocking



Notes

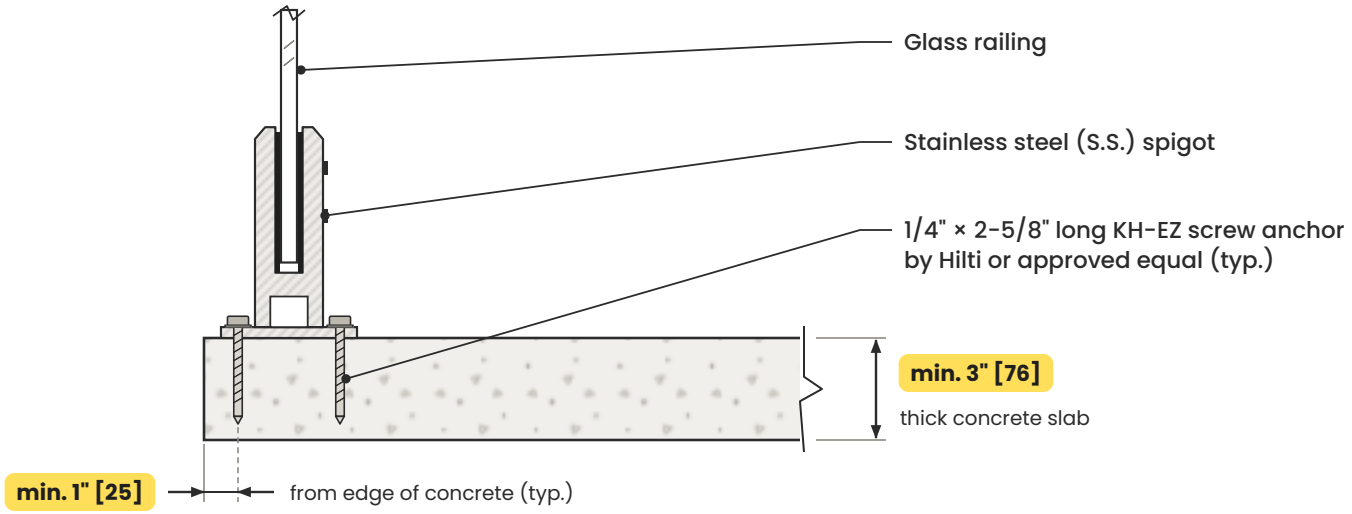
1. Use hot-dipped galvanized or zinc-plated bolts for outdoor applications (typ.).
2. No additional connections, other than the spigots specified here, are required to make a sturdy connection between the railing and the substrate.

REFERENCE DETAILS

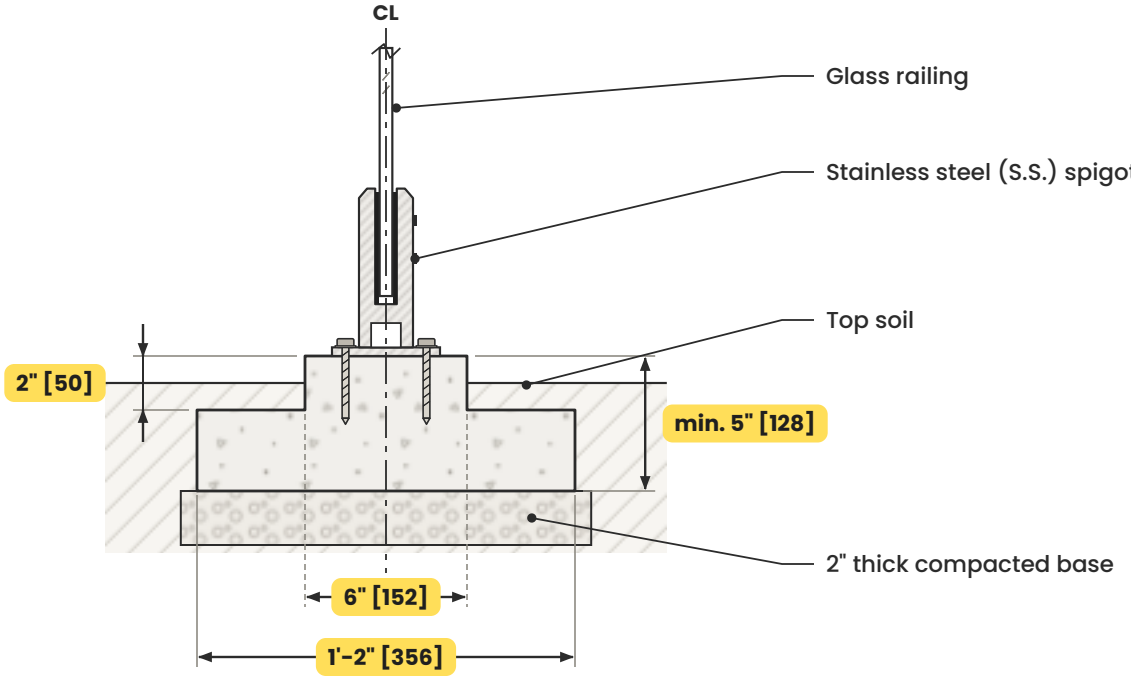
Installation on concrete

Typical sections for a spigot fastened to a concrete slab, or to a footing on grade.

A Concrete slab



B Minimum footing for a railing installed on grade (Option B)



Notes

1. Use hot-dipped galvanized or zinc-plated bolts for outdoor applications (typ.).
2. No additional connections, other than the spigots specified here, are required to make a sturdy connection between the railing and the substrate.



QUESTIONS & CONTACT

We're here to help.

Not sure about a measurement, a part or your substrate? Talk to The Glass Railing Store team before you drill.

CALL
+1 (855) 452-7715

EMAIL
info@glassrailingstore.com

SHOP & INFO
glassrailingstore.com

Quick reference

3" min.	railing centerline from the outer edge
25%	of the panel width: spigot centre from each panel end
≈ 1"	gap between panels (3/4" to 2" OK)
4 + 4	lag screws and Allen-key adjustment screws per spigot
12 mm	glass
2-1/4"	top of glass to top of clamp (recommended)

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See the view, not the railing!