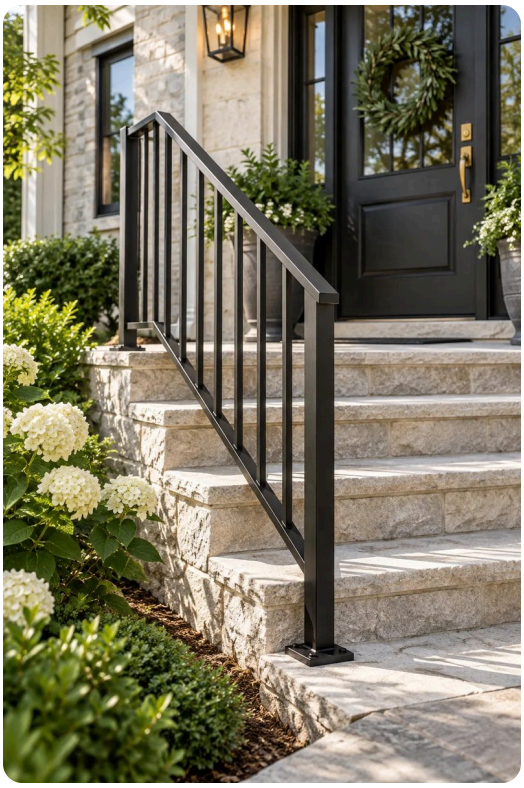
Railing Measurement & Spacing Cheat Sheet

Measure, space, and securely mount a rock-solid outdoor handrail.

Planning a new outdoor handrail doesn't have to feel daunting. Use these exact specs and anchoring techniques to confidently transform your front entry.



Key Target Measurements

34-38 inches
Nosing-to-grip height

3.5 inches
Baluster gap for fabrication margin

Min 1.5 inches
Wall clearance behind the handrail

12 inches
Horizontal overhang past final riser

Min 4 inches
Mounting holes from stone edge

Exactly 1 inch
Exposed rod thread above stone

Start at the nosing

Measuring height from the tread center is a common mistake. Always pull your tape from the stair nosing straight up so descending doesn't feel uncomfortably low.

Installation Sequence

1. **Drill and clean** Tape your bit for depth. Use a stiff wire brush and shop vacuum to remove all dust.
2. **Set epoxy resin anchors** Inject structural adhesive and twist stainless steel rods to eliminate trapped air pockets before curing.
3. **Level and cure** Test the dry fit, adjust rod angles, and let the chemical adhesive cure for 24 hours.
4. **Shim and tighten** Tuck steel leveling shims under the base to compensate for drainage slope. Tighten in a star pattern.

Material Selection Guide

Find your row: **Your local conditions**

Your local conditions	Your pick	Why
Exposed to rain	Stainless or composite shims	Prevents orange rust stains on light stone
Ground-level moisture	Marine-grade stainless acorn nuts	Provides superior rust resistance without sharp threads
Freezing weather	Polyurethane sealant with weep hole	Blocks moisture while allowing internal drainage
Harsh sun and weather	Powder-coated finish	Baked-on shell resists chipping, fading, and rust

Pre-Installation Checks

- ○ Inspect masonry treads closely for hairline cracks or loose mortar.
- ○ Match your masonry drill bit exactly to the epoxy manufacturer's specifications.
- ○ Check chemical anchor ratings with the manufacturer for your specific stone.
- ○ Use a straightedge and angle finder to match the exact stair slope.
- ○ Request 11-gauge tubular steel for main posts to handle daily traffic.

Project Notes

Enjoy the peace of mind that comes with a truly rock-solid front entry!