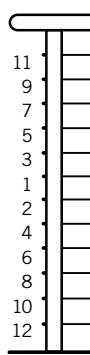


CABLE·RAIL® by feeney Step-by-Step Installation for Wood Frames

TOOL CHECKLIST

- Safety Glasses
- Work Gloves
- Pencil
- Measuring Tape
- Electric Drill
- Drill Bits
- Hammer
- Cable Cutters or Cut-Off disk
- Vise-Grip Pliers
- 7/16" Wrench
- Electric Grinder
- Hacksaw or Electric Reciprocating Saw
- Cable Lacing Needle

Recommended cable tensioning sequence



- 1 Mark drill hole locations on posts.
 - 2 Drill holes in posts. Hole diameter depends on cable size and type of fitting. See chart below.
 - 3 (Wood posts only) Insert Protector Sleeves at necessary locations. Tap in until flush.
 - 4 Insert the Threaded Terminal through the Terminal end post and attach a flat washer and Snug-Grip® Washer-Nut. Spin the nut 2 full turns. Strong resistance will be felt as the Snug-Grip® threads engage; so hold the Terminal shaft with pliers.
 - 5 Lace the free end of the cable through the intermediate posts and Quick-Connect®SS end post. Slide-on a flat washer and Quick-Connect®SS fitting until they rest against the face of the post.
 - 6 Use a Lacing Needle if snagging becomes a problem.
 - 7 Use Beveled Washers for stair termination posts with angled holes.
 - 8 Available for Threaded Terminal and Quick-Connect®SS fittings.
 - 9 Hold the Quick-Connect®SS fitting with one hand and pull the cable tight with the other. The fitting automatically locks when you release the cable.
 - 10 Tighten Snug-Grip® Washer-Nuts until you can't flex the cables more than 4 inches apart using your thumb and fingers on one hand. See diagram to the left for tensioning sequence.
- Important Note:** If using electric or pneumatic tools to tighten the Washer Nuts, spin the nuts very slowly otherwise they will heat-up causing the threads to seize.

Cables can either terminate or run through corner posts

Terminating



Continuous



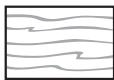
SINGLE WOOD POST*

DOUBLE WOOD POSTS

*Offset drill holes at least 1/2" if you choose to have cables terminating at a single wood post.

Wood Frame Requirements

Railing frames need to be designed and built strong enough to support the tension of properly installed cables, which is a load in excess of 300 lbs for each cable. Here are some basic guidelines to help you properly prepare your railing frames. These guidelines apply whether you are using 1/8", 3/16" or 1/4" cable (1/4" cable not recommended for wood frames).



Minimum sizes for all corner and end posts

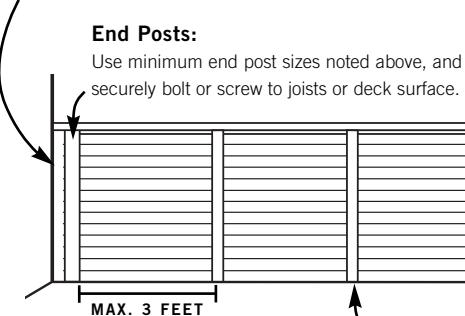
All other posts should be sized as required for cap rail support strength or for code

4X6 WOOD
3-1/2" wide, 5-1/2" thick

The Basic Frame Design

Spacing From Walls:

Set end posts 3 to 4 inches away from the house/wall face to allow access for attaching cable end fittings.



Maximum Post Spacing:

Space all posts and vertical spacers (see below) a maximum of 3 feet apart to minimize any deflection that may occur if the cables are ever forced apart.

Cap Rail:

Always include a strong, rigid cap rail that is securely fastened to all posts. Cap size is based on load strength needs and local code requirements. Set railing height per local code.

Cable Spacing:

Maximum 3 inches apart.

Wood Blocking (WOOD FRAMES ONLY):

Underneath the cap rail attach minimum 1"x 4" wood blocking between posts to provide additional lateral reinforcement to the posts so that they won't pull out of plumb when the cables are tensioned.

Double Corner Posts:

If possible use double corner posts to allow the cable to run continuously through the corners without terminating (see single corner post option below). Securely bolt or screw posts to joists or deck surface and use minimum corner post sizes noted above.

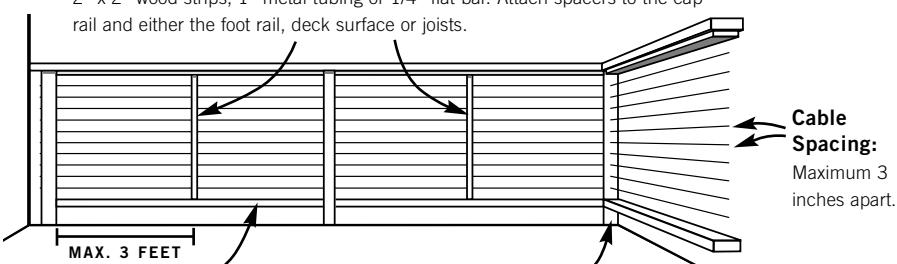
CONSTRUCTION CHECKLIST

- Space cables no more than 3 inches apart
- Space posts/verticals no more than 3 feet apart
- Observe minimum end/corner post sizes shown above
- Securely fasten all posts and cap rails
- Carefully plan all termination and corner posts for proper clearance, positioning, and maximum cable run lengths
- Straight runs of cable (no turns/dips) should not exceed 70 feet; runs with corner bends (2 bends at most) should not exceed 40 feet

And Some Other Options

Vertical Spacers (OPTIONAL):

Slender spacers may be used instead of some of the larger intermediate posts to achieve a more open railing design. These are non-structural members and are only intended to maintain cable spacing and minimize deflection. Examples are 2" x 2" wood strips, 1" metal tubing or 1/4" flat bar. Attach spacers to the cap rail and either the foot rail, deck surface or joists.



Cable Spacing:

Maximum 3 inches apart.

Foot Rails (OPTIONAL):

Foot rails should be spaced no more than 4 inches above the deck surface, or as required by local code, and should be sized as needed for support strength and design appearance.

Single Corner Post (OPTIONAL):

When terminating on a single corner post, be sure to offset the drill holes at least 1/2" to allow internal clearance for the cable fittings. Use minimum end post sizes noted above and securely bolt or screw to joists or deck surface.

IMPORTANT NOTE

For railings we recommend spacing the cables no more than 3 inches apart and placing posts or vertical members no more than 3 feet apart.

Please note that since building codes vary by state, county and city, our recommendations may not comply with code requirements in all areas.

Always consult with your local building department before starting your project.