# RadianceRail® Installation Guide





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#### TimberTech Code Listings

Once a product is tested by an independent lab, an application and report is submitted to one of several agencies that provide listings for building products that meet the requirements of Acceptance Criteria 174 (AC 174) as set forth by the International Code Council Evaluation Service (ICC-ES). TimberTech currently has listings from the ICC-ES and Architectural Testing Inc. The following TimberTech reports on code compliance are available to download on www.timbertech.com.

For the most up-to-date code listings visit www.timbertech.com/installation.

ATI Architectural Testing, Inc.
CCRR-0114 • RadianceRail & RadianceRail Express



- Please read all instructions completely before starting any part of the installation.
- TimberTech Rail should be installed using the same good building principles used to install wood or composite railing and in accordance with the local building codes and the installation guidelines included below. TimberTech accepts no liability or responsibility for the improper installation of this product.
- TimberTech Rail may not be suitable for every application and it is the sole responsibility of the installer to be sure that TimberTech Rail is fit for the intended use. Since all installations are unique, it is also the installer's responsibility to determine specific requirements in regards to each Rail application.
- TimberTech recommends that all applications be reviewed by a licensed architect, engineer or local building official before installation. If you have any questions or need further assistance, please call TimberTech Customer Service at 1.800.307.7780 or visit our website at www.timbertech.com.
- TimberTech Railing is tested as a whole system and should be used that way. It is not intended to be used in conjunction with other railing systems or fasteners.
- The following Installation Guidelines are applicable for installation of TimberTech RadianceRail railing.
- IMPORTANT: Make sure the DRIVE TOOL/DRILL is configured or set to use the SCREW setting when driving and/or tightening all FASTENERS.
- SAFETY: Always wear goggles when handling, cutting, drilling and fastening materials.
- Failure to install this product in accordance with applicable building codes and TimberTech's written Rail Install Guide may lead to personal injury, affect rail system performance and void the product warranty.

### Installing RadianceRail® with CableRail by Feeney®



Visit www.timbertech.com/installation to view TimberTech installation videos.

Consult your local building codes for guard and handrail requirements.

#### RadianceRail® Custom Rail Packs are available in 10', 8' and 6' lengths.

#### **Measuring Your Railing Area**

- Measurements are from center to center of post. Rails are produced in 10', 8' and 6' lengths to allow for finished end cuts and angles.
- Determine how many 10', 8' and 6' RadianceRail Custom Rail sections you need. Check to be sure you have all components (and quantities) listed in the chart shown to the right.

#### **Important Information**



- Radiance Rail Custom Rail 10', 8' and 6' Rails are designed not to exceed 10', 8' and 6' center of post to center of post, respectively.
- •For stair applications maximum rail length must not exceed 91".
  - 4x4 lumber posts should be installed plumb.
  - Cut slowly, using a fine tooth saw blade to avoid chipping.
  - Cannot be installed using Secure Mount Post.
  - For 42" railing use 12' Post Sleeves

#### Component Dimensions $\overline{\mathbb{C}}$ Intermediate Baluster Top Rail -1 8' T. T. Day Post Sleeve Quick-Connect Quick-Connect Intermediate Base Swivel Fitting

#### **Tools Required**

• 2 3/8" Open End

Wrenches

- Miter Saw
- Tape Measure
- Drill
- Cable Cutters
- •#2 Square Drive
- Drill Bits: 7/64". 1/4", 3/16", 1/8" 9/64"
- Extended 1/4" **Drill Bit**

#### **Components Needed For Installing** One RadianceRail Section

Hardware included in Hardware Kits:

#### Hardware Mounting Kit

- 4 Mounting Brackets
- 2 Support Blocks
- 16 #8 x 3/4" Screws
- 6 #8 x 1 3/4" Screws 6 #8 x 2 5/8" Screws (Stairs Only)
- 3 #8 x 3" Screws
- 12 #8 x 3" Green Screws
- T20 Driver Bit

Components available separately for mix-and-match rail systems

- 1 Top Rail
- 1 Bottom Rail
- 2 Support Rails (1 Aluminum Top Support Rail for 10') Hardware Mounting Kit

Support Block Mounting Templates

Foot Blocks

Components

CableRail

- 1 in 6' Packs, - 2 in 8' Packs, - 3 in 10' Packs

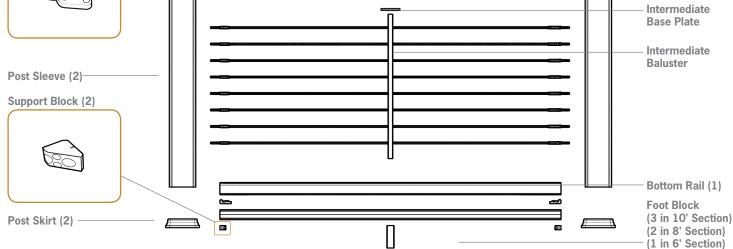
36" Intermediate Baluster - 1 for 6', - 2 for 8', - 3 for 10' 42" Intermediate Baluster - 1 for 6' - 2 for 8' - 3 for 10' Stair Intermediate Baluster

- 1 for 6', 2 for 8', 3 for 10' - 100' spool or 500' spool
- 36" Hardware Kit
- 9 Quick-Connect Fittings 9 Ouick-Connect Swivel
- Fittings
- 18 Hanger Bolts
- 9 lock nuts

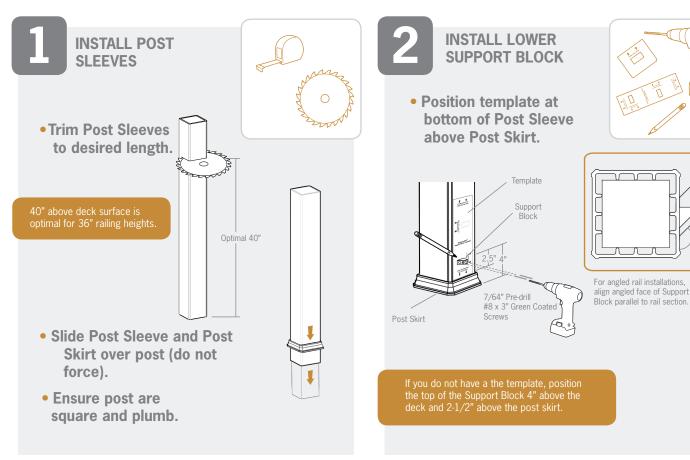
#### 42" Hardware Kit

- 11 Quick-Connect Fittings
- 11 Quick-Connect Swivel Fittings
- 22 Hanger Bolts
- 11 lock nuts

- Additional Components **Needed for Each** System
- 2 Post Sleeves 2- Post Caps
- 2- Post Skirts
- Protector Sleeves
- 42" System: 22 per Thru Post
- 36" System: 18 per Thru
- CableRail Accessory Pack Includes:
- **Quick-Connect release tool** Lacing Needle
- Hanger Bolt Installation Tool
- **Mounting Bracket (4)** Post Cap (2) Top Rail (1) Support Rail (2) Intermediate **Base Plate** Intermediate Baluster Support Block (2)

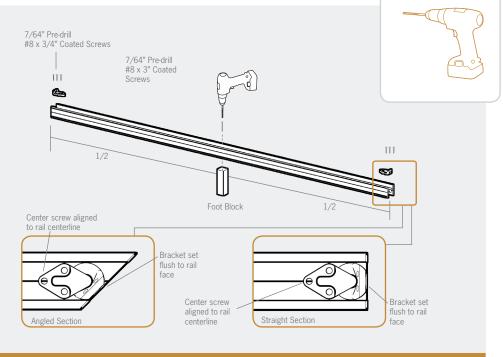








- Cut Bottom Support Rail to length.
- Attach bracket to Bottom Support Rail with screws.



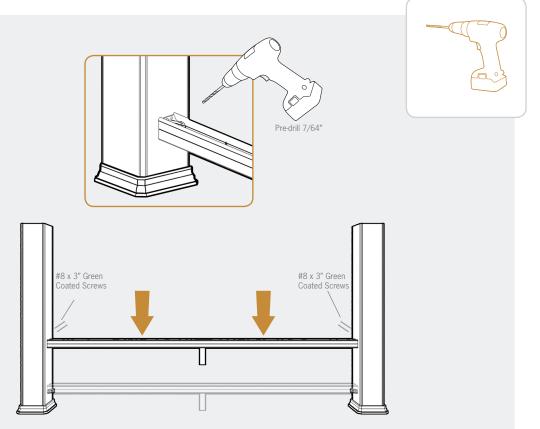


For sections up to 6': Place one Foot Block in the center of the rail For sections 6' to 8': Space two Foot Blocks approximately at 1/3 intervals on the rail For sections 8' to 10': Space three Foot Blocks approximately at 1/4 intervals on the rail



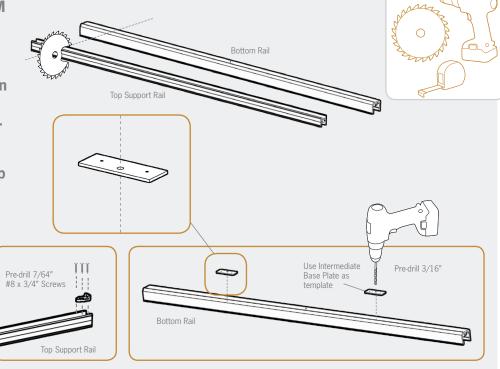


 Position rail assembly onto Support Blocks.



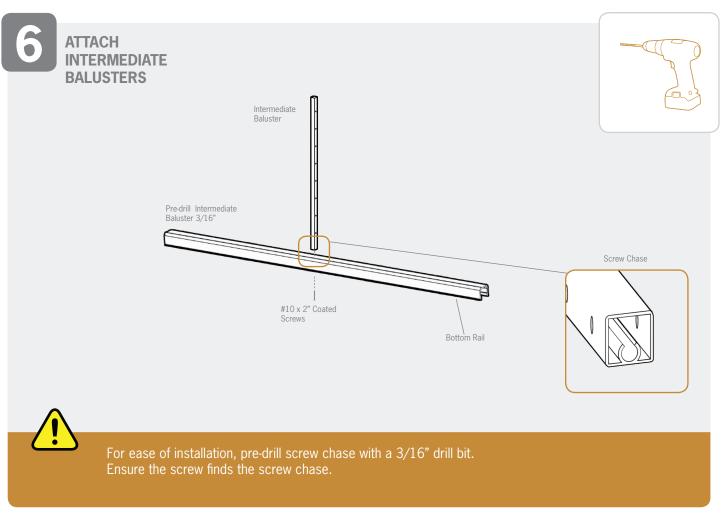
CUT & PREP BOTTOM RAIL AND TOP SUPPORT RAIL

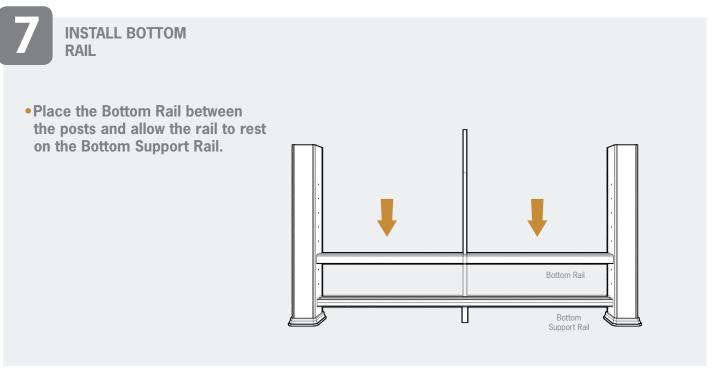
- Measure distance between the posts at the Bottom Rail and Top Support Rail.
- Cut to length.
- Attach brackets to the Top Support Rail. Use step 3 for reference.
- Pre-drill the Bottom Rail for the Intermediate Baluster



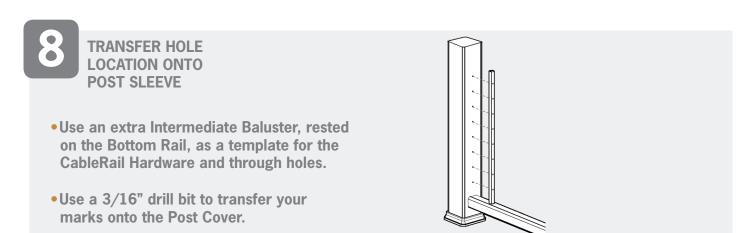
6' sections require 1 Intermediate Baluster; 8' sections require 2 Intermediate Balusters; 10' sections require 3 Intermediate Balusters.

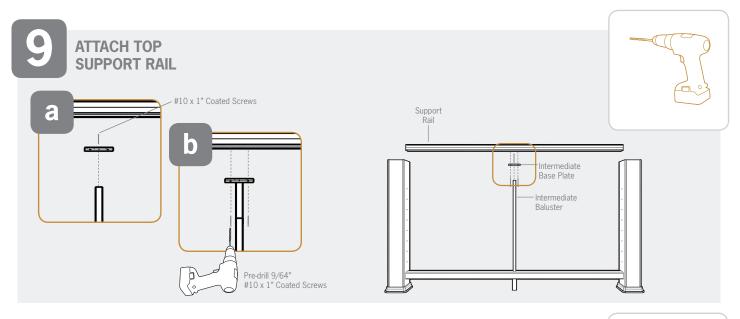


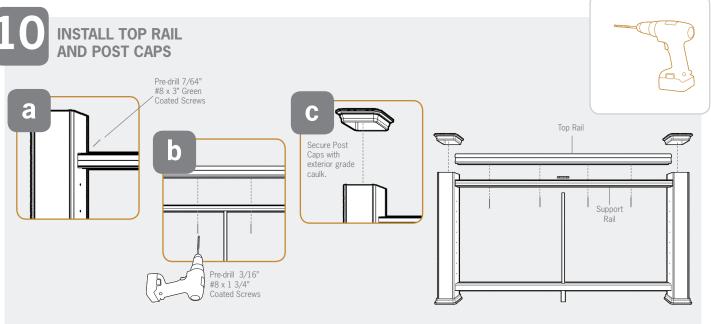






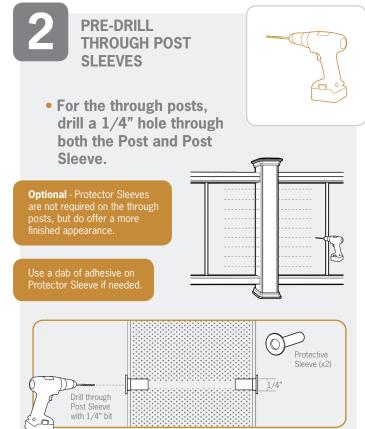








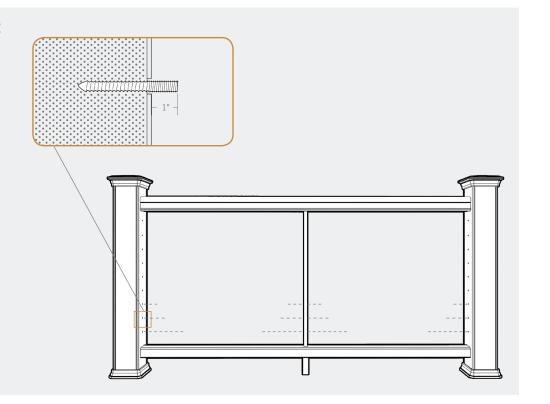




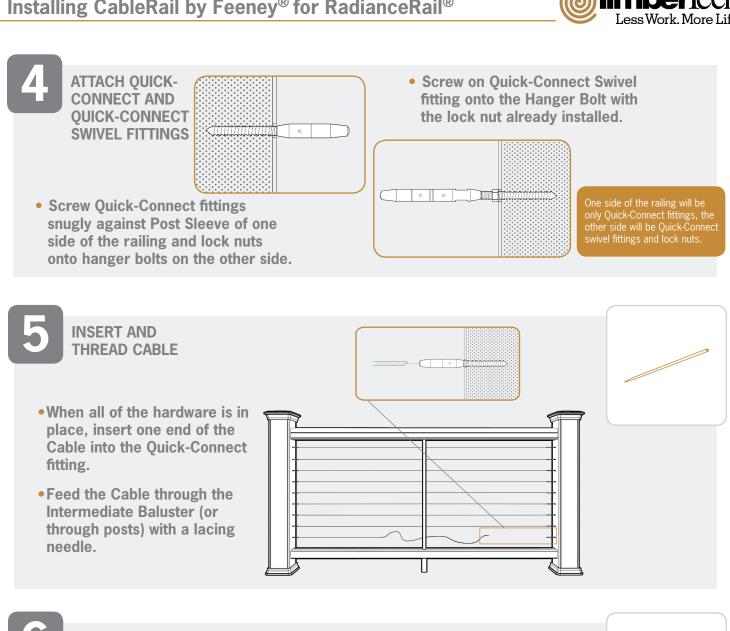
## DRIVE IN HANGER BOLTS

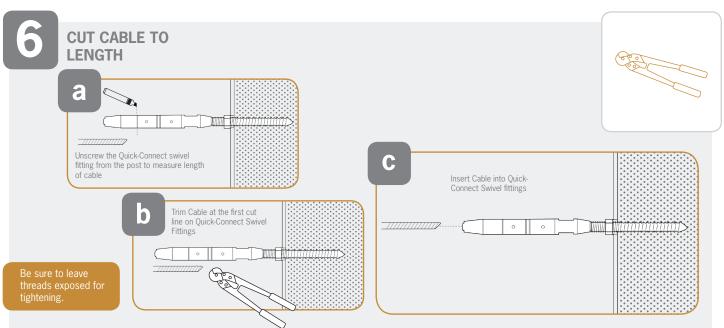
 On Anchor Posts, screw the Hanger Bolts into the pilot holes in the Post with the Hanger Bolt Installation Tool.

Leave about 1" of machine thread exposed for cable take-up.

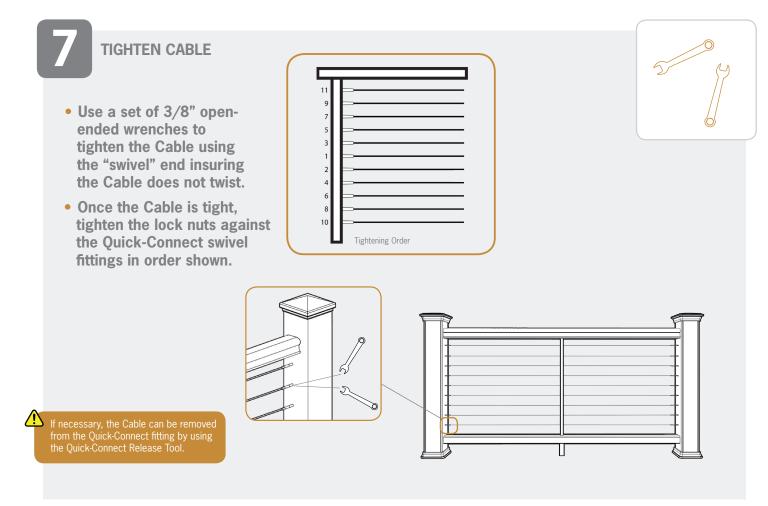




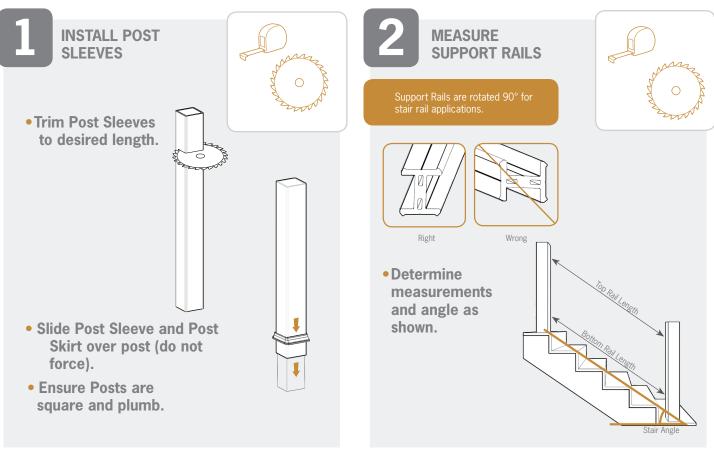


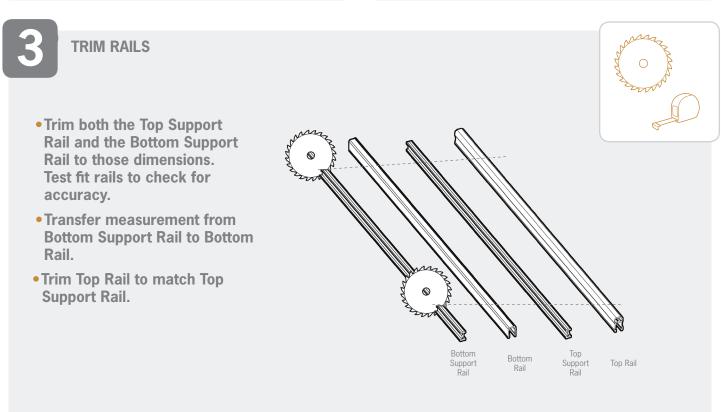








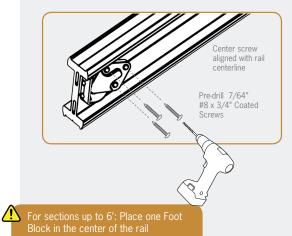




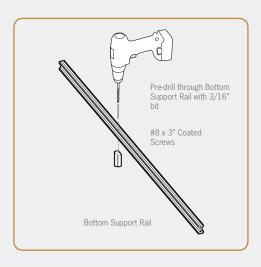




 Attach Mounting Brackets to Bottom Support Rail.



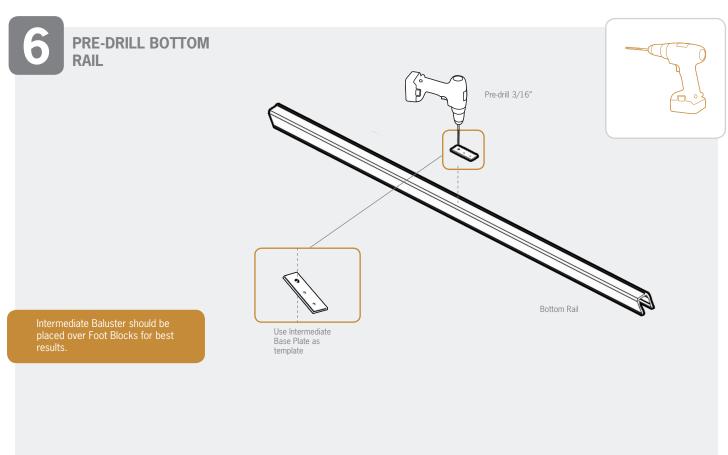
• Trim and Attach Foot Blocks.

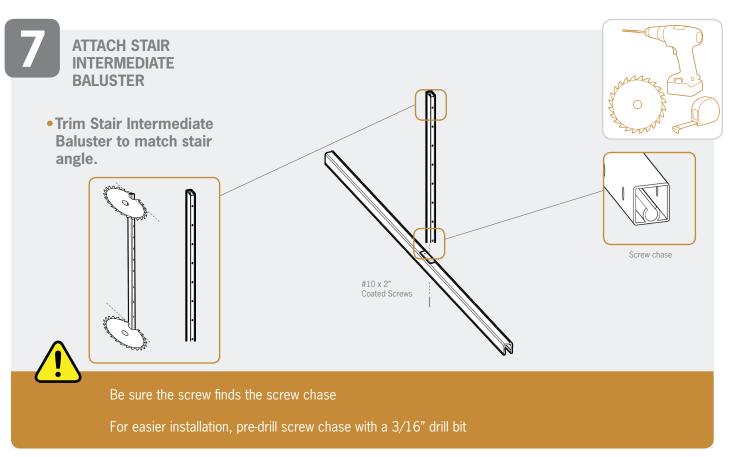


For sections 6' to 8': Space two Foot Blocks approximately at 1/3 intervals on the rail.



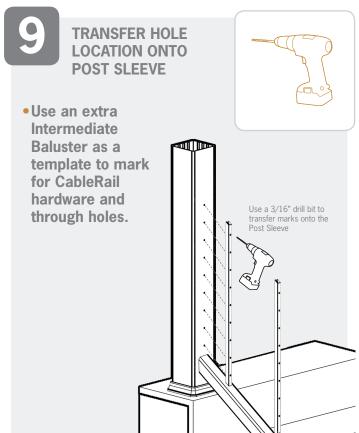


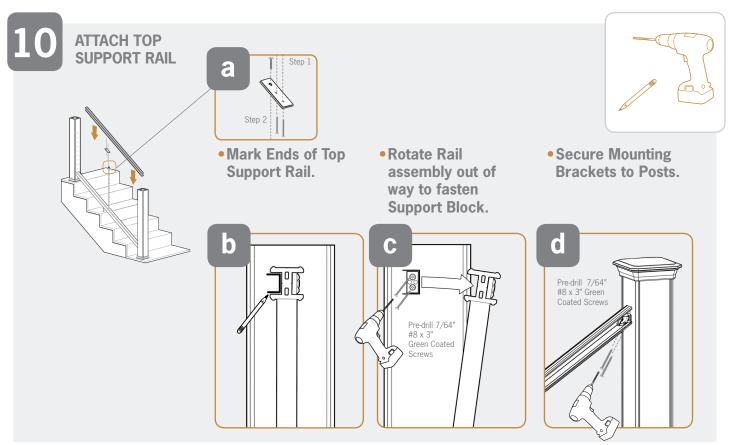




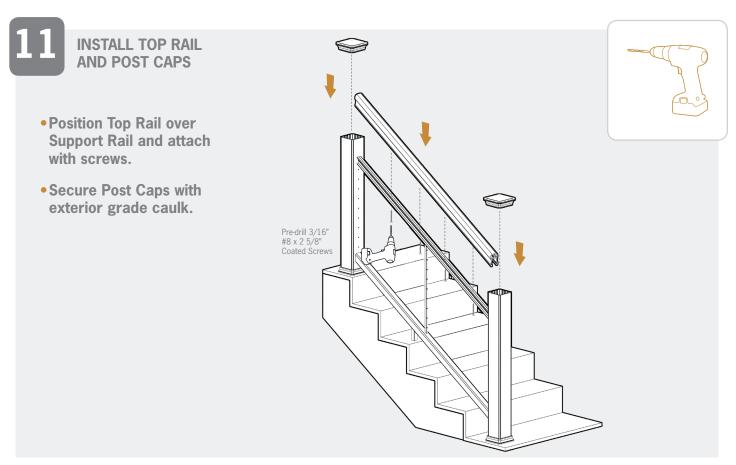




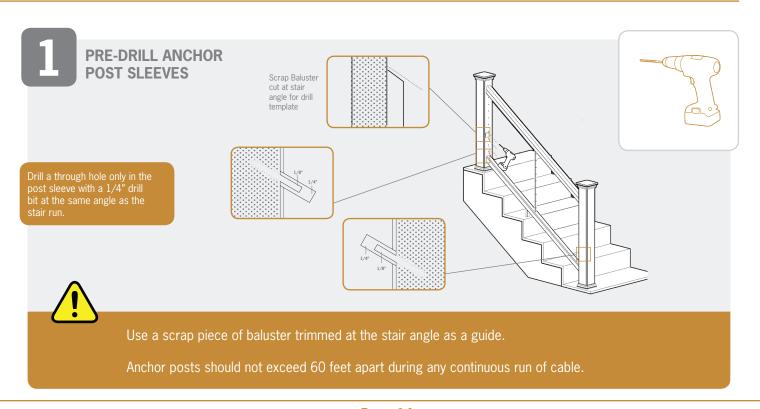




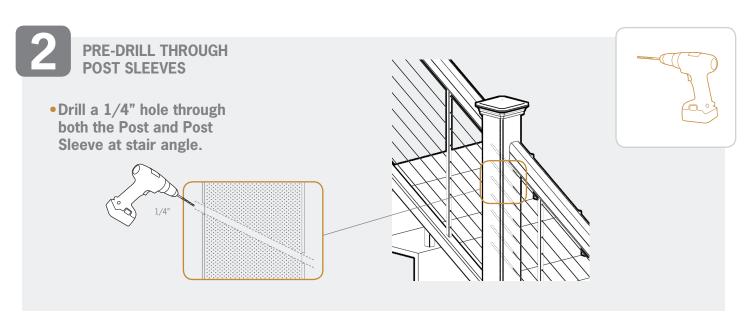


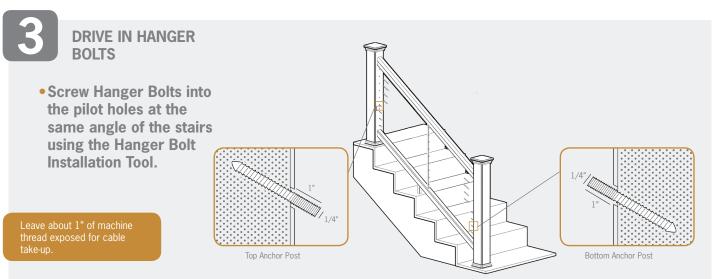


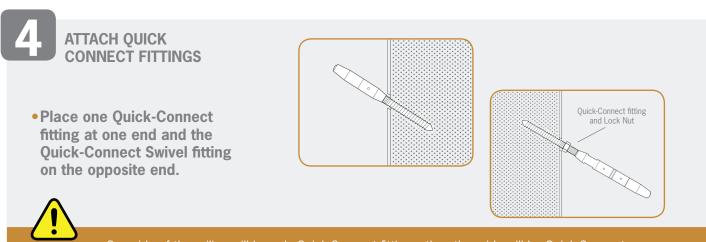
### Installing CableRail by Feeney® Stairs for RadianceRail®





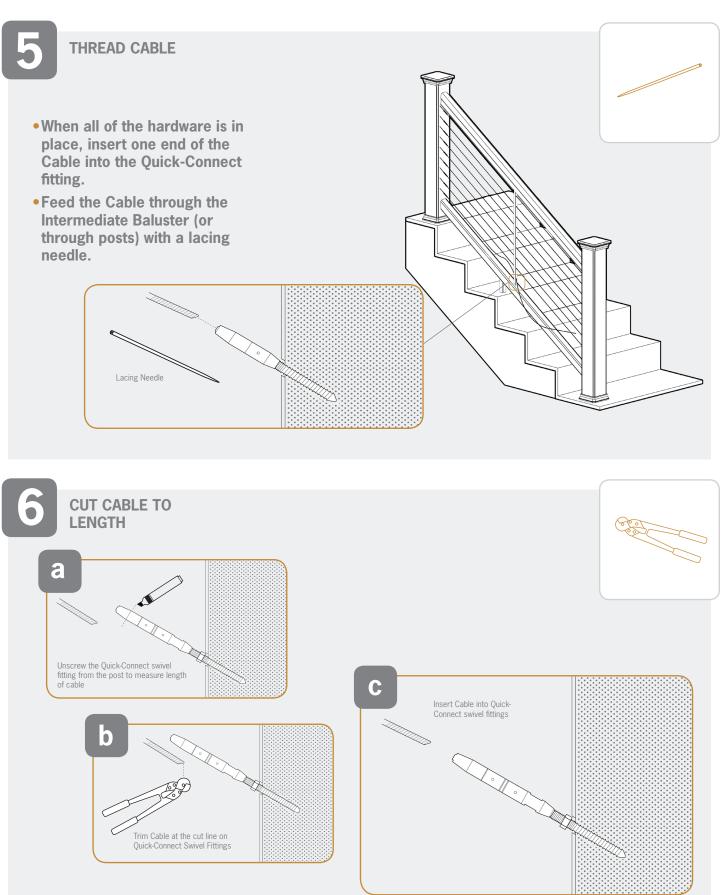




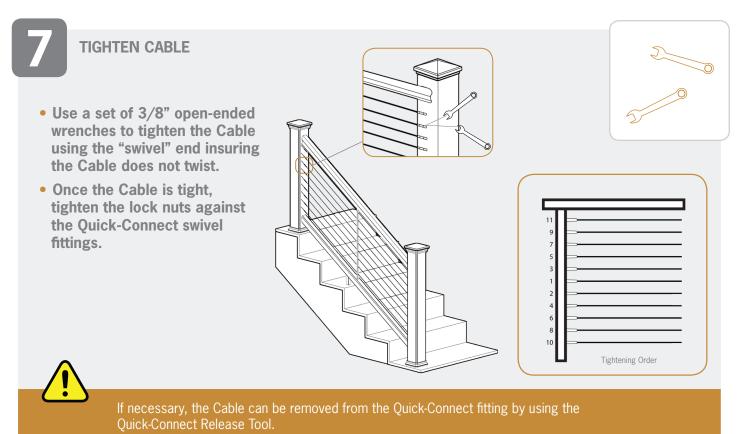


One side of the railing will be only Quick-Connect fittings, the other side will be Quick-Connect swivel fittings and lock nuts









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TimberTech 894 Prairie Avenue Wilmington, OH 45177 timbertech.com 1.800.307.7780