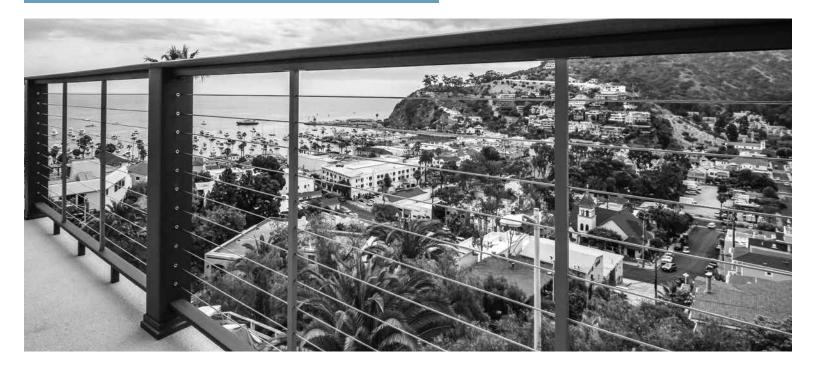
# **Evolutions Rail™ Contemporary Style Installation Guide**





| Installing Evolutions Rail <sup>™</sup> Contemporary Style with CableRail by Feeney <sup>®</sup> | 2 |
|--|---|
| Installing CableRail by Feeney® for Evolutions Rail™ Contemporary Style                          | 8 |
| Installing Evolutions Rail™ Contemporary Style Stairs with CableRail by Feeney®1                 | 1 |
| Installing CableRail by Feeney® Stairs for Evolutions Rail™ Contemporary Style                   | 6 |

#### 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-0196 • Evolutions Rail



- 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 Evolutions Rail Contemporary Style 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 Evolutions Rail<sup>™</sup> Contemporary Style with CableRail by Feeney®



Visit www.timbertech.com/installation to view TimberTech installation videos. Consult your local building codes for guard and handrail requirements.

**Evolutions Rail™ Contemporary Rail Packs are** available in 6' or 8' lengths.

### **Measuring Your Railing Area**

- Measurements are from center to center of post. Packs are produced to 6' and 8' to allow for finished end cuts and angles.
- Determine how many 6' or 8' Contemporary Rail packs you need and check to be sure you have all the components (and quantities) listed in the chart and shown to the right.

#### Important Information



- Contemporary Style 6' and 8' Packs are designed not to exceed 6' and 8' center of post to center of post, respectively.
- Cut slowly, using a fine tooth saw blade to avoid chipping.
- For 42" railing, use 8' Post Sleeves.

#### **Component Dimensions** ediate Base Top Rail Baluster 2 225" T. I. I. Dag Universal Rail Protecto Hinge Fitting Swivel Fitting Sleeve Bracket

#### **Tools Required**

- Miter Saw (blade designed for finished cuts)
- Drill
- Cable Cutters
- Extended 1/4" drill bit
- 2 3/8" openended wrenches
- Drill Bits: 1/4". 3/16", 1/8", 9/64"
- Tape Measure
- #2 square drive

### **Components Needed For Installing One Contemporary Style Rail Section**

Hardware included in 4 - Hinged Brackets 11 - #10x2" Screws 8 - #10x7/8" Screws **Hardware Kits:** 4 - #10x1/2" Screws T25 Torx Driver Bit

Components available in Mix-and-Match Rail **Systems** 

2 - Universal Rails Hardware Mounting Kit 8 - Top Rail screws

Foot blocks - 2 in 6' Pack

Contemporary

CableRail

2 - Post Sleeves

Post Skirts

- 3 in 8' Pack

36" Intermediate Baluster 42" Intermediate Baluster -2 for 8' 1 for 6' 1 for 6' -2 for 8' Cable

36" Hardware Kit 9 Quick Connect Fittings 9 Quick Connect Swivel

Fittings Stair Intermediate Baluster - 18 Hanger Bolts

9 Lock Nuts 42" Hardware Kit

100' spool or 500' spool - 11 Quick Connect Fittings - 11 Quick Connect Swivel Fittings

- 22 Hanger Bolts - 11 Lock Nuts

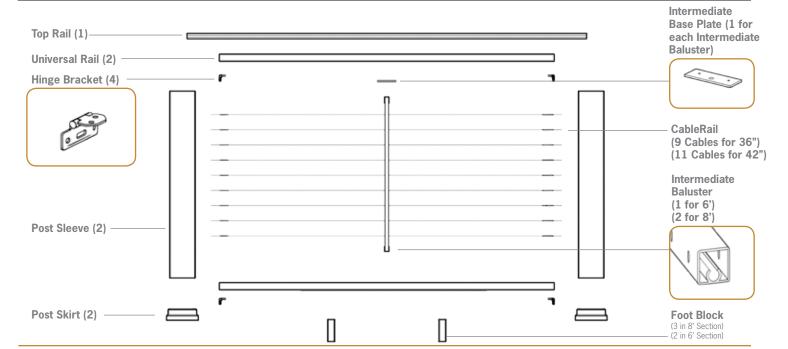
**Additional Components Needed for Each** System

CableRail Accessory Pack Includes: - Quick-Connect Release Tool

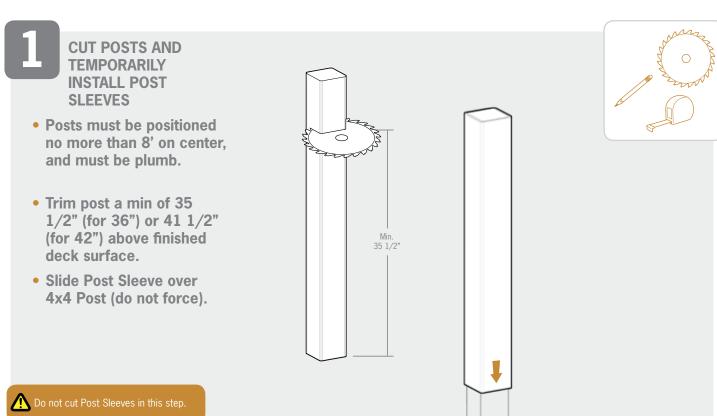
Contemporary Top Rail End Coating- optional - Lacing Needle - Hanger Bolt Installation Tool

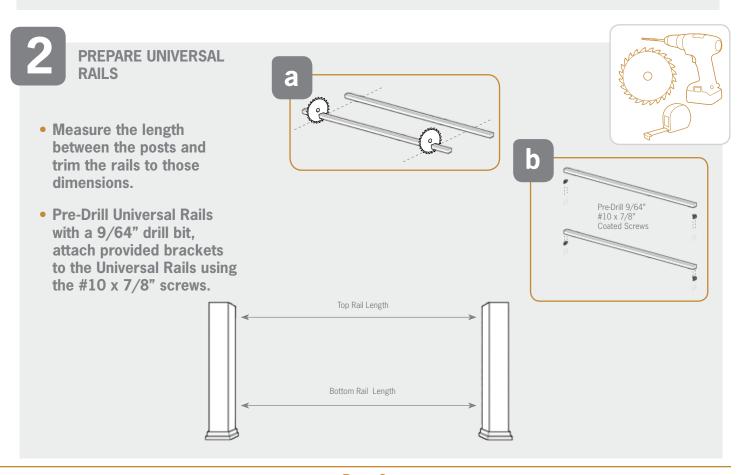
**Protector Sleeves** 42" system: 22 per through post

- 36" system: 18 per through post













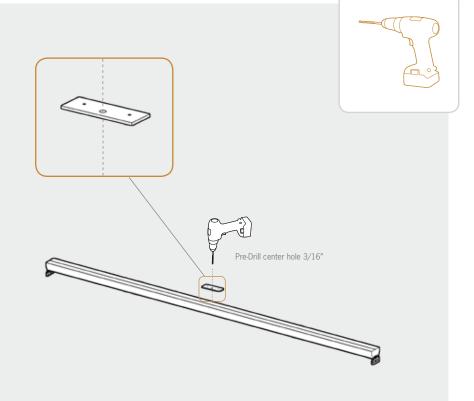
Use the Intermediate
 Base Plate of the
 Intermediate Baluster as
 a template on the bottom
 Universal Rail.

1' to 6' on center requires 1 Intermediate Balusters.

6' to 8' on center requires 2 Intermediate Balusters.

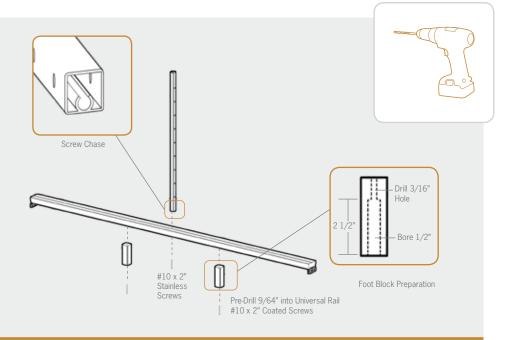


Pre-drilled hole will be offset from the centerline.



# ATTACH INTERMEDIATE BALUSTER AND FOOT BLOCKS

- Attach the Intermediate Baluster to the bottom Universal Rail using the #10x2" screw.
- Attach provided foot blocks to the underside of one Universal rail by counter-boring the foot block and using the #10x2" screws.





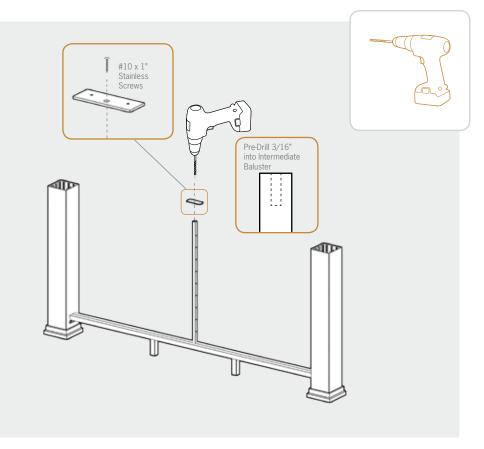
Be sure the screw finds the screw chase. For easier installation, pre-drill screw chase with a 3/16" drill bit

For sections up to 6': Place two Foot Blocks at 1/3 intervals on the rail. For sections 6' to 8': Space three Foot Blocks approximately at 1/4 intervals on the rail.



### ATTACH BASE PLATE TO INTERMEDIATE BALUSTER

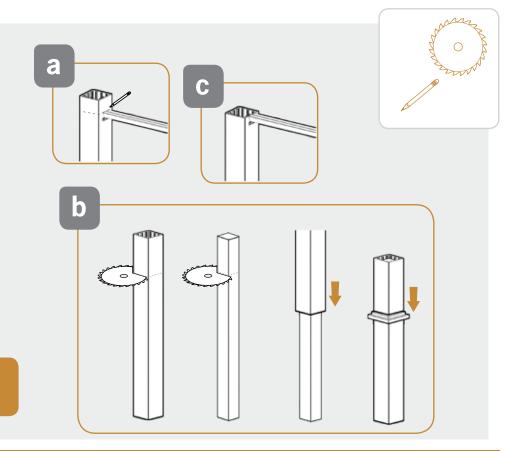
- Place the bottom
   Universal Rail and allow
   the rail to rest on its foot
   blocks.
- Attach base plate to the Intermediate Baluster.



### MEASURE AND CUT POST SLEEVES

- Temporarily install top Universal Rail.
- Mark the height of the Post Sleeves.
- Cut your Post Sleeves and posts to desired length.
- Place the Post Sleeves over the 4x4" posts.
- Slide Post Skirts over Post Sleeves.

Post Sleeves should be flush with the top Universal Rail.

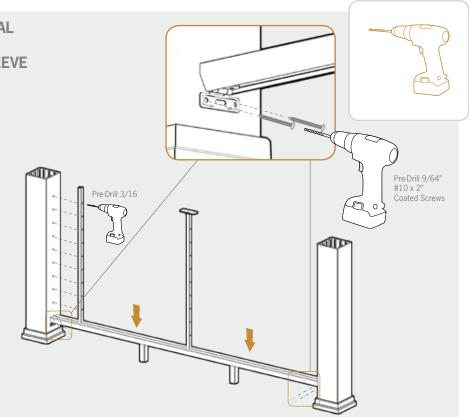




# ATTACH BOT RAIL AND TILLOCATION OF

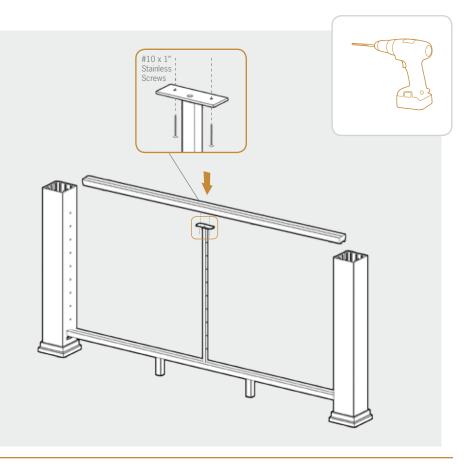
### ATTACH BOTTOM UNIVERSAL RAIL AND TRANSFER HOLE LOCATION ONTO POST SLEEVE

- Set the bottom Universal railing into place and Pre-Drill pilot holes through the Post Sleeve and into the post through the bracket holes.
   Secure with #10x2" screws.
- Use an extra Intermediate Baluster as a template for the CableRail hardware and through holes. Use a 3/16" drill bit to transfer your marks to the Post Sleeves.



# TRIM TOP RAIL AND SECURE TOP UNIVERSAL RAIL

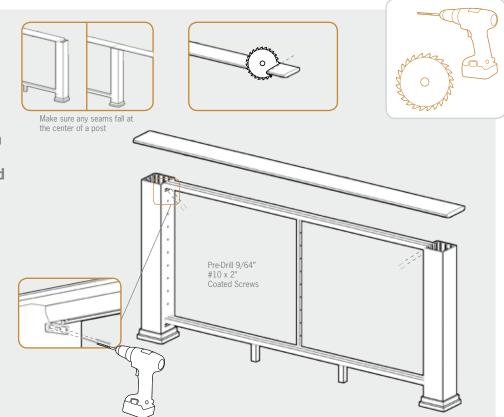
Attach Intermediate
 Baluster to the underside
 of the top Universal Rail
 with 2 #10x1" screws.





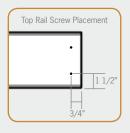
## SECURE TOP UNIVERSAL RAIL & TRIM TOP RAIL

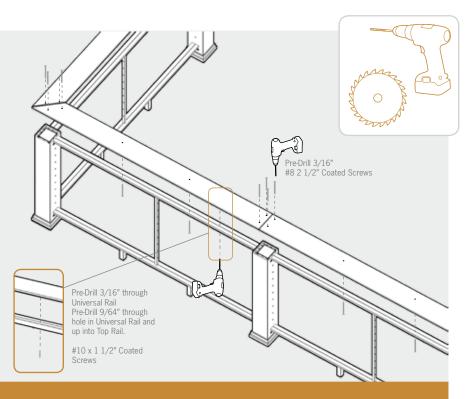
- Pre-Drill pilot holes through the Post Sleeve and into the post through holes in the brackets of the top Universal Rail and fasten using #10 x 2" Coated Screws.
- Cut the Top Rail so that any seams fall at the center of a post.



### 10 INSTALL TOP RAIL

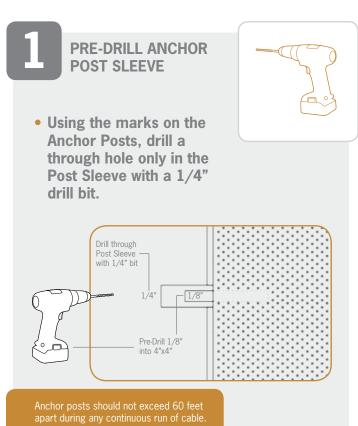
 Cut Top Rail so that any seams fall at the center of a post. Miter the planks at corner posts.

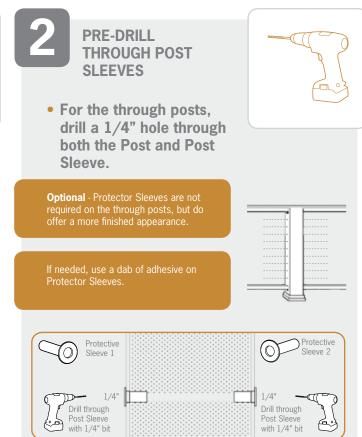


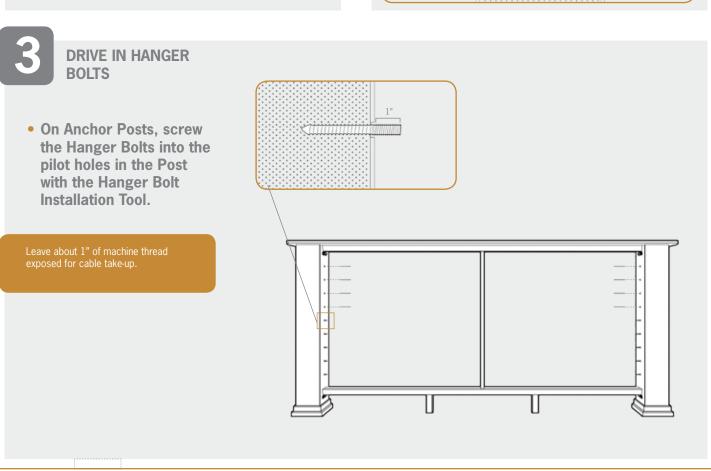


If your rail has stair sections, start installing the cap at the stairs. Wait until all rail sections are complete before beginning Top Rail installation.

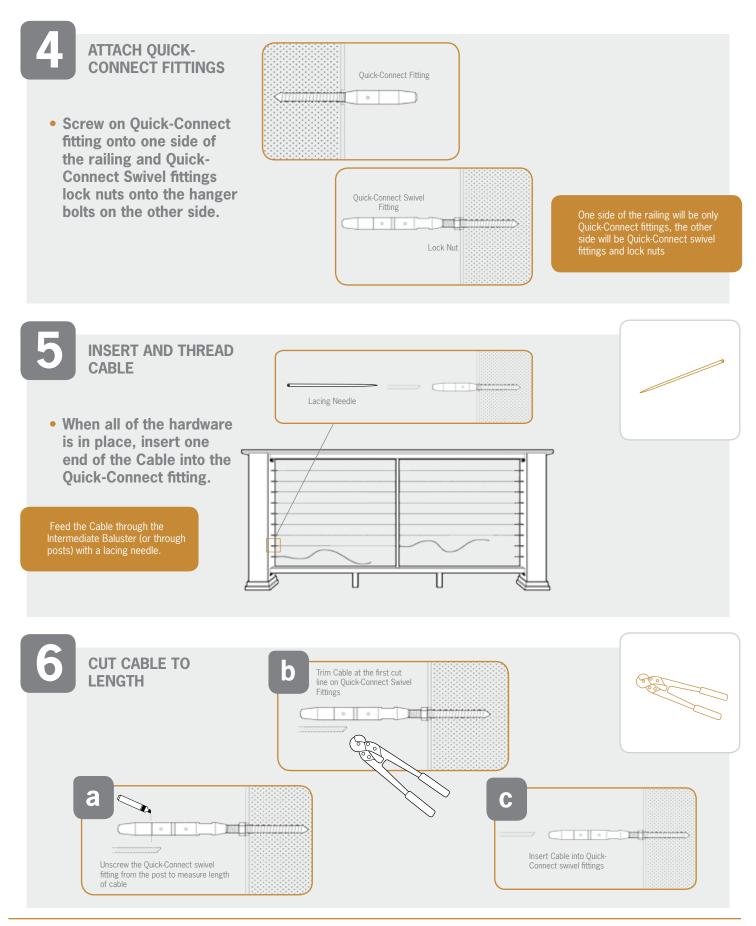




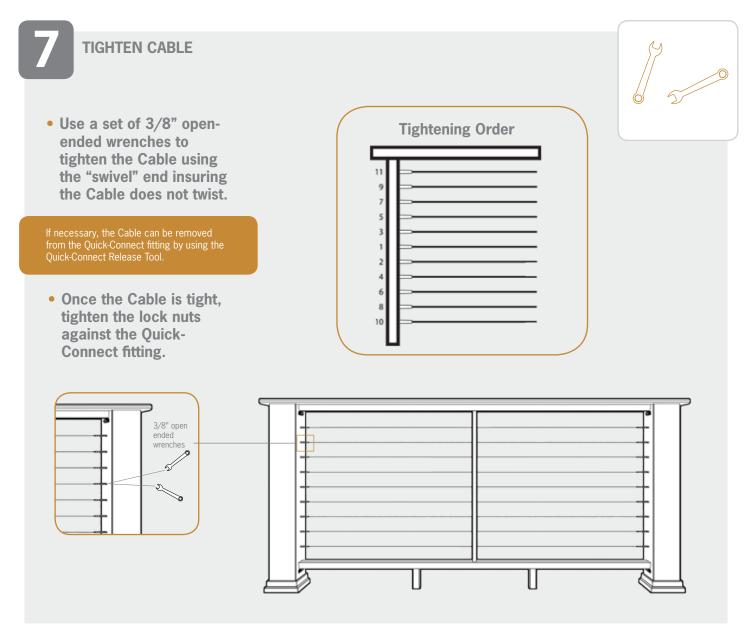








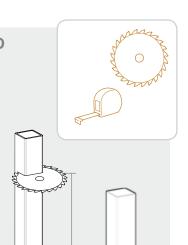






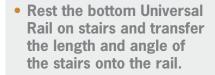
- CUT POSTS AND TEMPORARILY INSTALL POST SLEEVES
  - Posts must be positioned no more than 8' on center, and must be plumb.
  - Trim post a min of 35 1/2" (for 36") or 41 1/2" (for 42") above finished deck surface.
  - Slide Post Sleeve over 4x4 Post. Do not force.
  - Posts may need to be slightly taller for stairs.





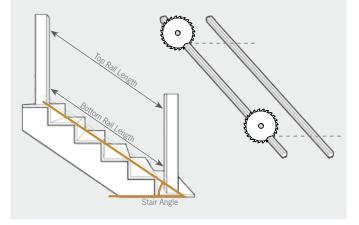
Min. 35 1/2"





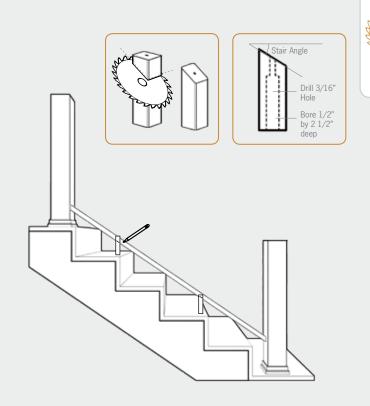
 Trim the rails to necessary length and angle.



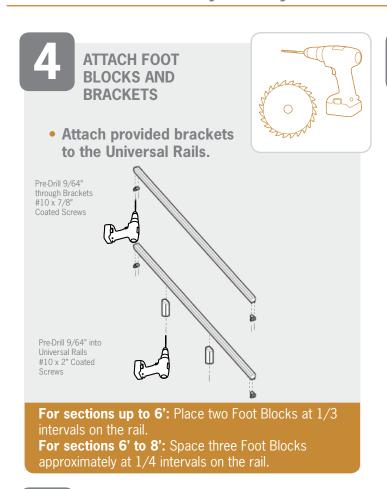


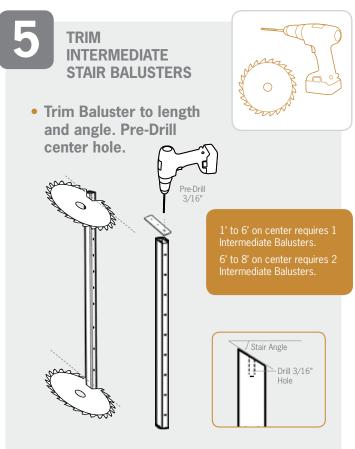
### PREPARE FOOT BLOCKS

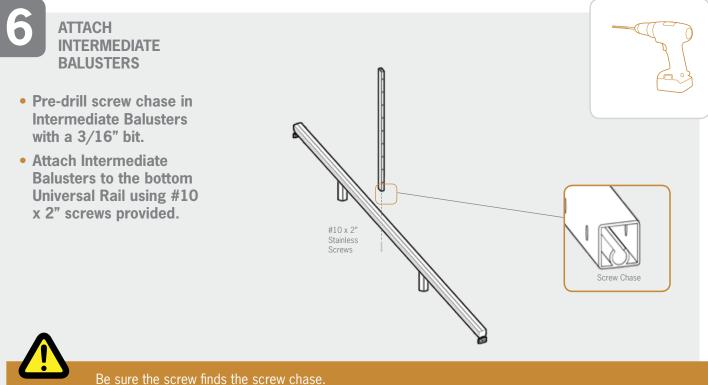
- Temporarily place bottom Universal Rail in place to plan where Foot Blocks will go.
- Cut Foot Blocks to length at the correct angle.
- Counter-bore the foot block and using the #10 x 2" screws









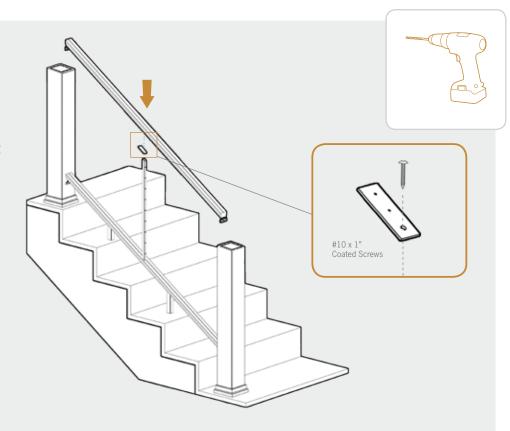


For easier installation, pre-drill screw chase with a 3/16" drill bit.



# ATTACH BASE PLATE TO INTERMEDIATE BALUSTERS

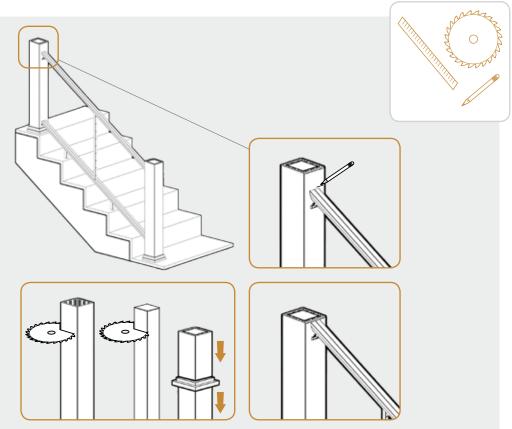
- Set the bottom Universal Rail in place and allow the rail to rest on its Foot Blocks.
- Attach base plate to the Intermediate Baluster.
- Place top Universal Rail on assembly but do not fasten.



## MEASURE AND TRIM TOP POST AND TOP POST SLEEVE

- Mark the top of the top Universal Rail.
- Remove Post Sleeve and trim to length, then Trim Post to same length.
- Replace Post Sleeve.

Post Sleeves should be flush with top Universal Rail.

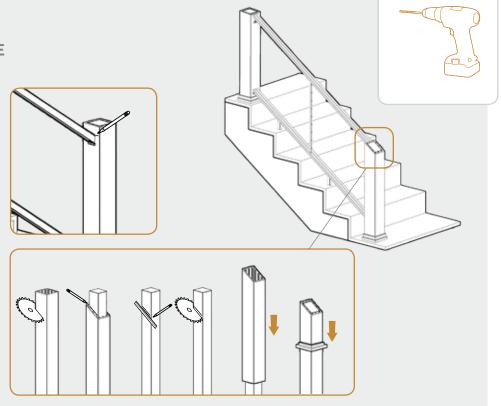




9

### MEASURE AND TRIM BOTTOM POST AND BOTTOM POST SLEEVE

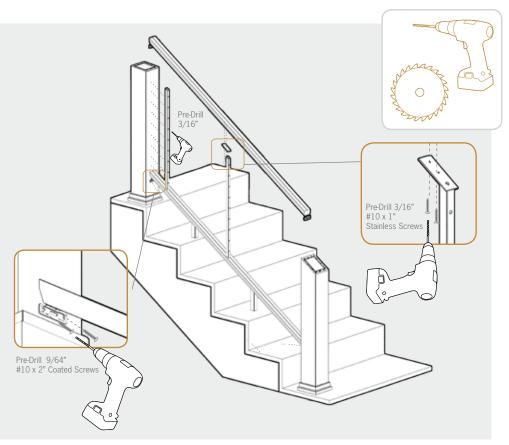
- Mark where Top Universal Board meets Bottom Post Sleeve.
- Remove Post Sleeve and trim to stair angle.
   Replace Post Sleeve.
- Use Post Sleeve to mark the angle of cut on Post. Remove Post Sleeve.
- Using a straight edge, draw a line roughly 1/8" below previous mark on Post.
- Trim Post at lower line.
- Replace Post Sleeve.
- Slide on Post Skirts.



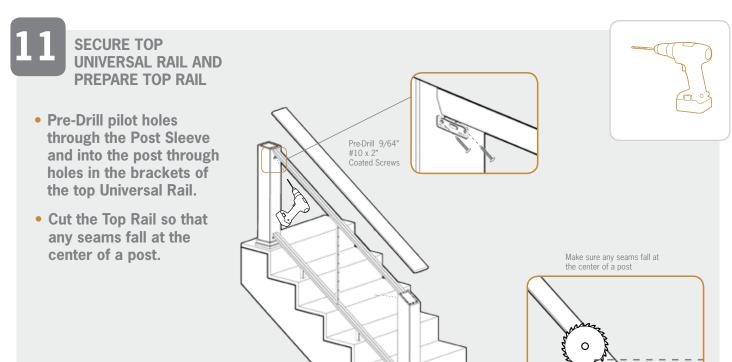


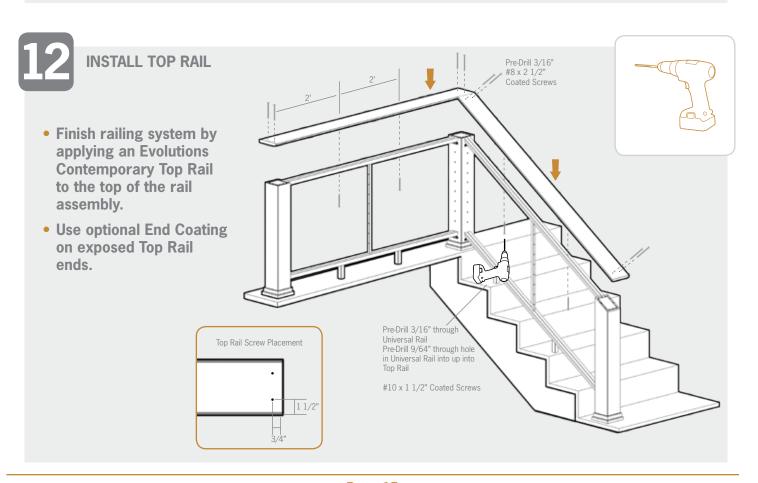
### INSTALL BOTTOM UNIVERSAL RAIL

- Attach the Bottom Universal Rail to the Posts
- Attach Intermediate
   Baluster to the underside
   of the top Universal Rail
   with the 2 #10x1" screws.
- Use an extra Intermediate Baluster, rested at the bottom Universal Rail, as a template for the CableRail hardware and through holes.
- Use a 3/16" drill bit to transfer your marks onto the Post Sleeve.

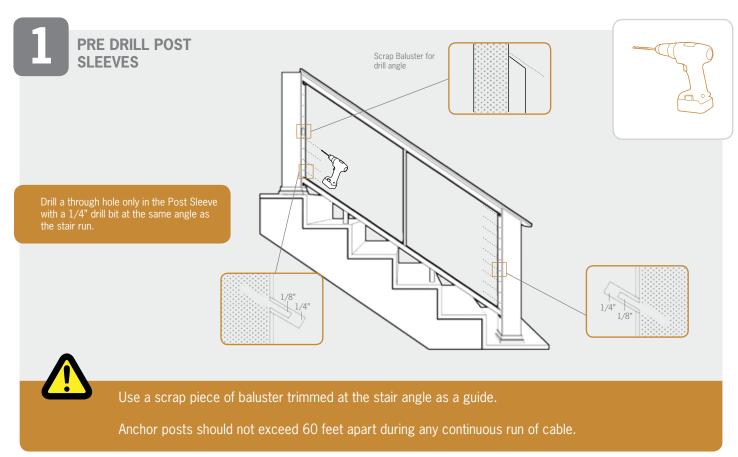


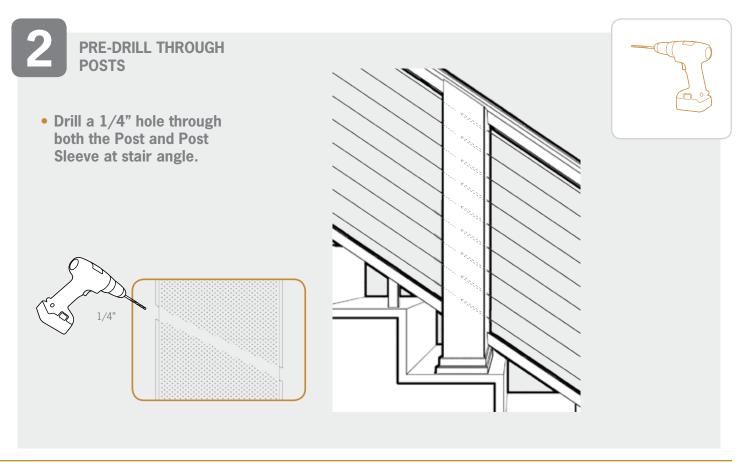




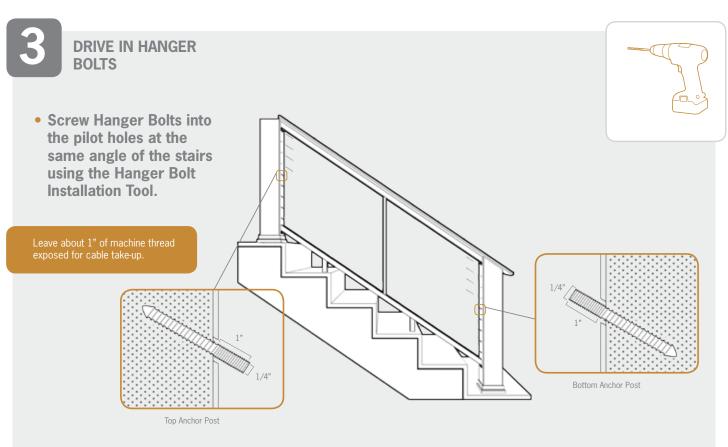






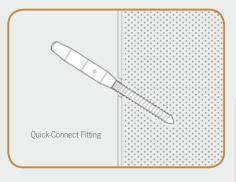




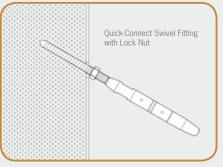




 Place one Quick-Connect fitting at one end and the locknuts and Quick-Connect Swivel fitting on the opposite end.



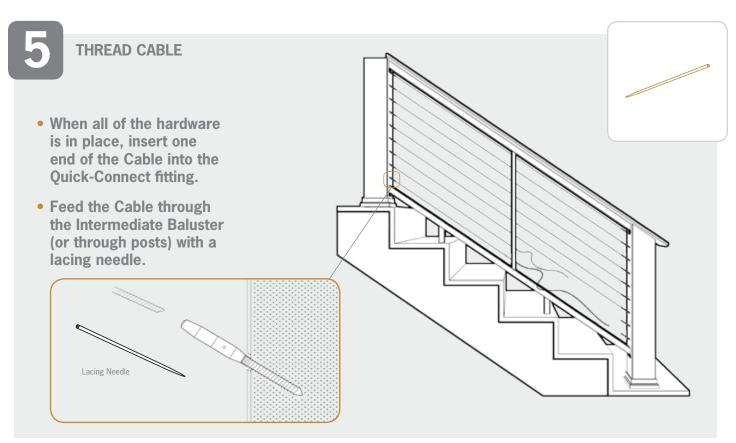


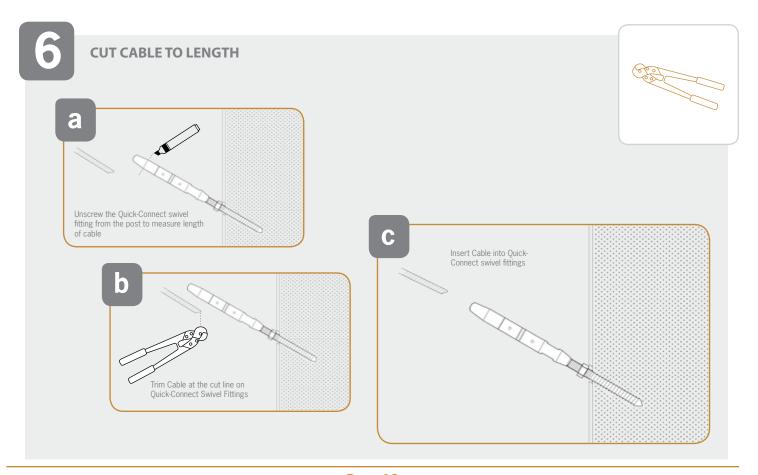




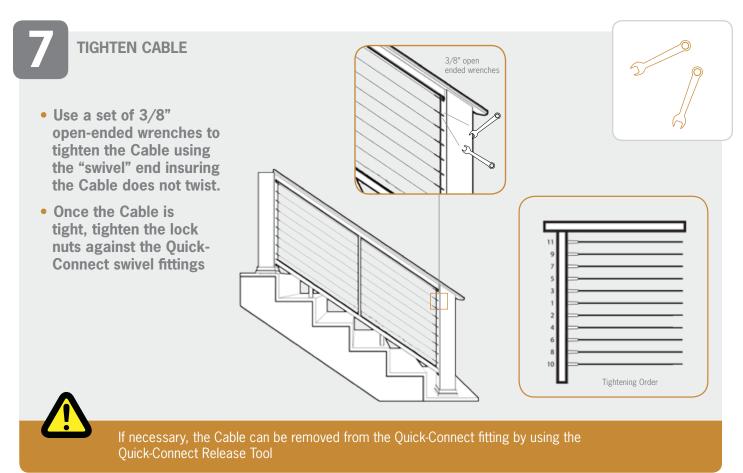
One side of the railing will be only Quick-Connect fittings, the other side will be Quick-Connect swivel fittings and lock nuts.











# **Evolutions Rail™ Contemporary Style Installation Guide**



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