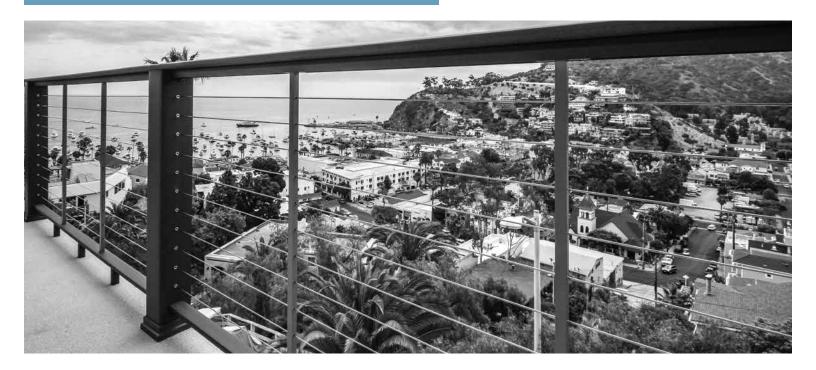
# **Evolutions Rail™ Contemporary Style Installation Guide**





Installing	Evolutions	Rail™	Contemporary	Style	with E	Balust	ers		 	2
Installing	Evolutions	Rail™	Contemporary	Style	Stairs	with	Balusters	S	 	7

#### 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™ Contemporary Style with Balusters



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**

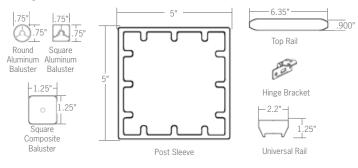
- Measurements are from center to center of the posts. Rails are produced to 6' and 8' to allow for finished end cuts and angles.
- Determine how many 6' or 8' Evolutions Rail sections you need and check to be sure you have all the components (and quantities) listed in the chart and shown to the right.

#### Important Information



- Contemporary Style 6' and 8' rail 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.
- Use 31" and 37" Aluminum Balusters for 36" and 42" railing heights

#### **Component Dimensions**



#### **Tools Required**

- Miter Saw
- Drill
- Drill Bits: 9/64", 3/16", & 1/2"
- Tape Measure

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

Hardware Mounting Kit

Hardware included in 4 - Hinge Brackets 11-#10 x 2" Screws **Hardware Kits:** 8 - #10 x 7/8" Screws 4 - #10 x 1.5" Screws T25 Torx Driver Bit

Rail

Contemporary

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

2 - Universal Rails Hardware Kit 8 - Top Rail Screws

Foot Blocks - 2 in 6' Packs - 3 in 8' Packs

Composite Baluster

- 13 in 6' kits - 18 in 8' Kits 36" Kit - 30.25" Height - 42" Kit - 36.25" Height

**Baluster Screws** - 26 for 6' Section

**Baluster Screws** 

- 20 #8 x 3'

20 #8 x 2"

36 for 8' Section

Aluminum Baluster

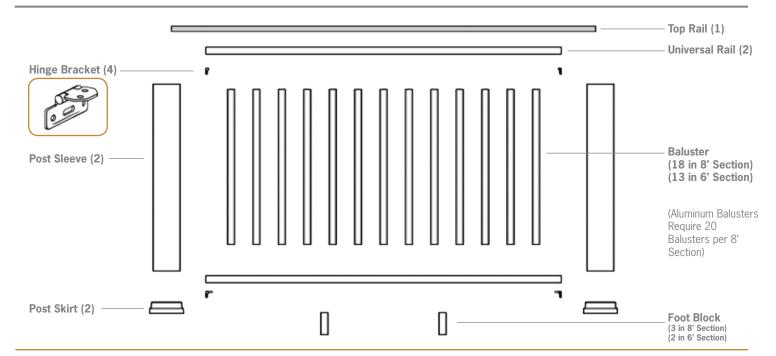
20 per Pack - 31"- 36" Height - 37" - 42" Height

- 31" Stair - 36" Height Stair - 37" Stair - 42" Height Stair

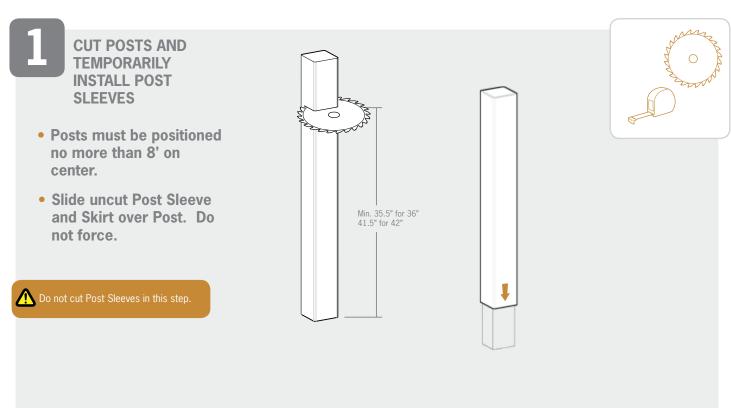
**Additional Components Needed for Each System** 

2 - Post Sleeves 2- Post Skirts

1- Contemporary Top Rail **End Coating Optional** 

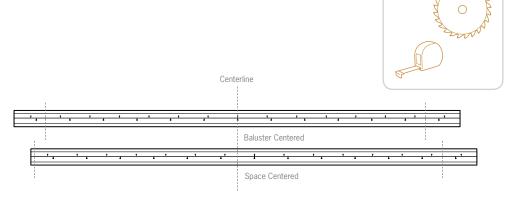


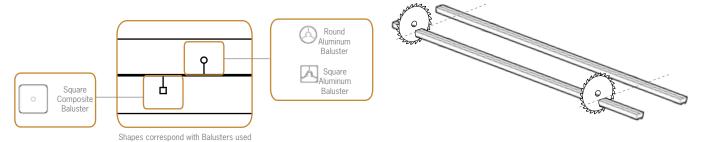




### PREPARE UNIVERSAL RAILS

 Measure between posts and determine if the cut center of the Universal Rails will be a Baluster or space. (example given for Square Aluminum Balusters).







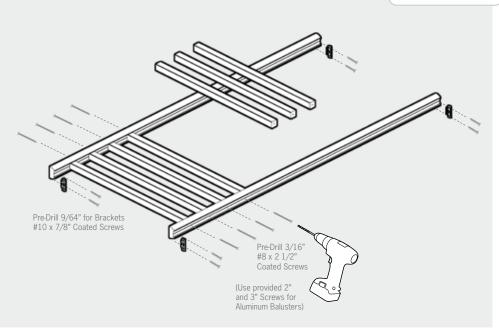
Use the shape guides printed on the underside of the Universal Rail with the corresponding Baluster to determine where the Balusters will be placed, before cutting the Universal Rails. The spaces between the Baluster will be less than 4".



## ATTACH BALUSTERS AND HINGE BRACKETS

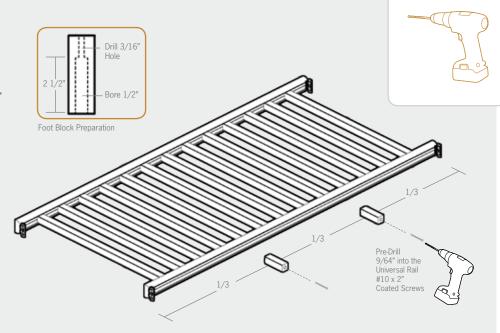
- Attach Hinge Brackets to each side of both Universal Rails.
- Pre-drill at the center of each Baluster hole on each Universal Rail.
- Attach Balusters with screws to both Universal Rails.





## ATTACH FOOT BLOCKS

- Counter-bore foot blocks.
- Place Foot Blocks about every 2'.





**For sections up to 6':** Place two Foot Blocks at 1/3 intervals on he rail

**For sections 6' to 8':** Space three Foot Blocks approximately at 1/4 intervals on the rail

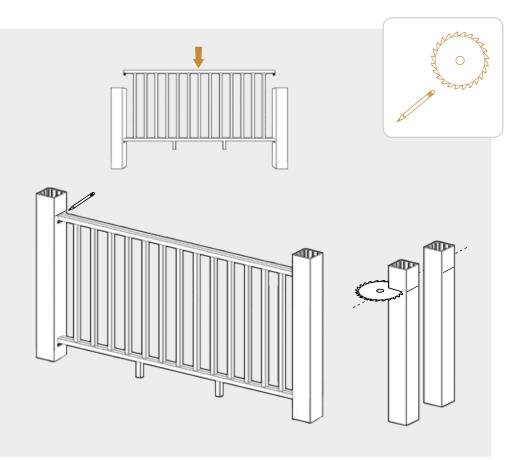


MEASURE AND TRIM POST SLEEVES

 Place rail assembly between the posts and allow the rail to rest on its foot blocks.

Post Sleeves should be flush with the Top Universal Rail.

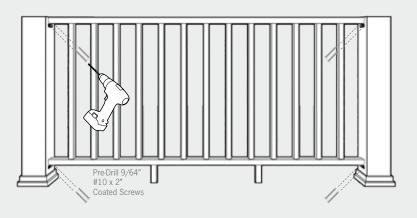
- Mark and trim Posts and Post Sleeves.
- Place the Post Sleeves and Skirts over the Posts.



ATTACH RAILS TO POSTS

 Position rail assembly between Posts and secure.

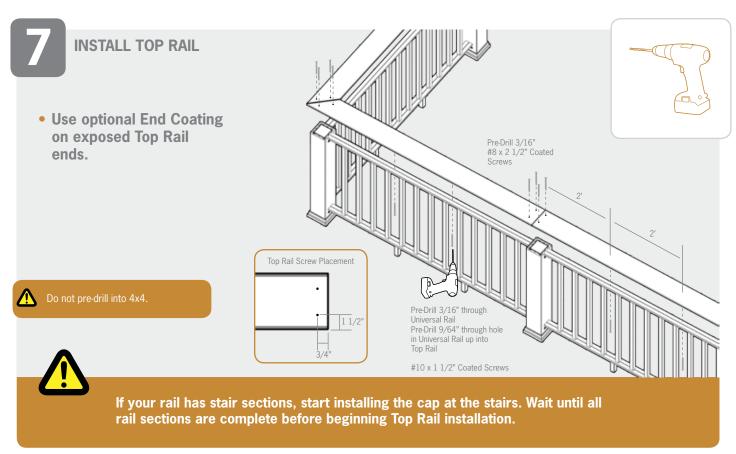






Screws are designed to go in at a slight angle.

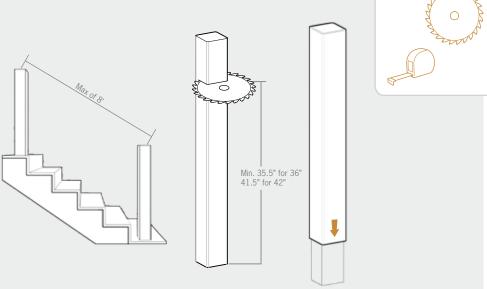








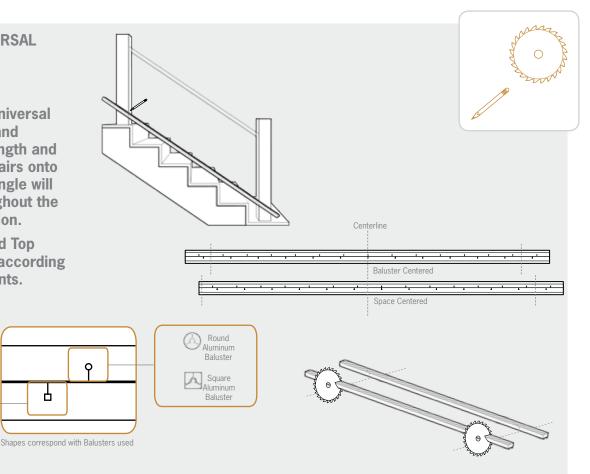
- Posts must be positioned no more than 8' on center.
- Slide uncut Post Sleeve and Skirt over Post (do not force).



### 2 CUT UNIVERSAL RAILS

- Rest Bottom Universal Rail on stairs and transfer the length and angle of the stairs onto the rail. This angle will be used throughout the entire installation.
- Cut Bottom and Top Universal Rail according to measurements.

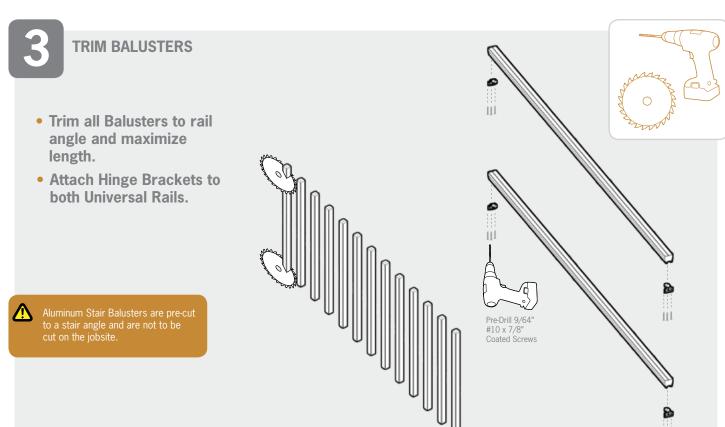
Square Composite Baluster

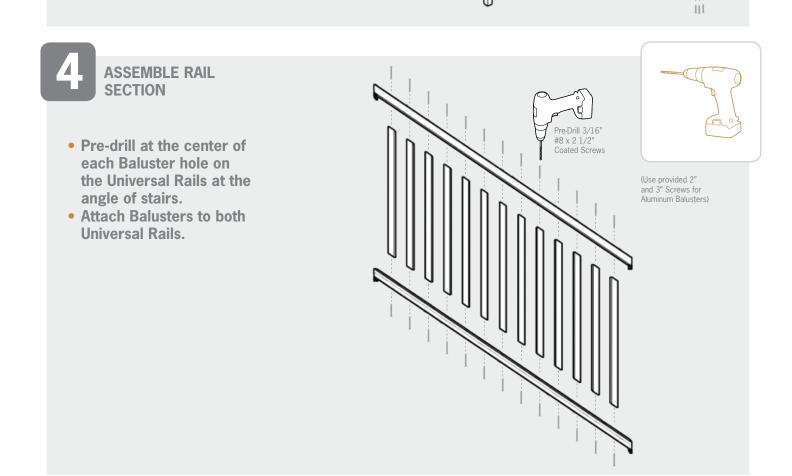




Use the shape guides printed on the underside of the Universal Rail with the corresponding Baluster to determine where the Balusters will be placed, before cutting the Universal Rails.



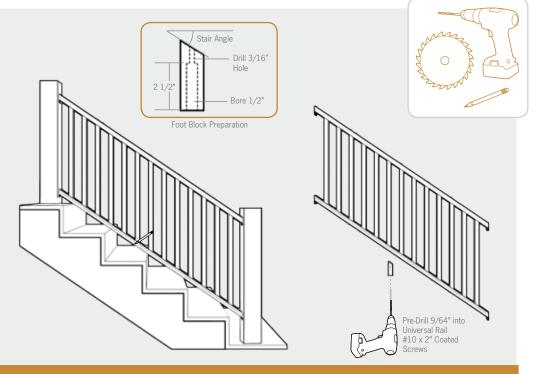








 Foot Blocks should be placed about every 2'. Temporarily install infill assembly to help determine locations.





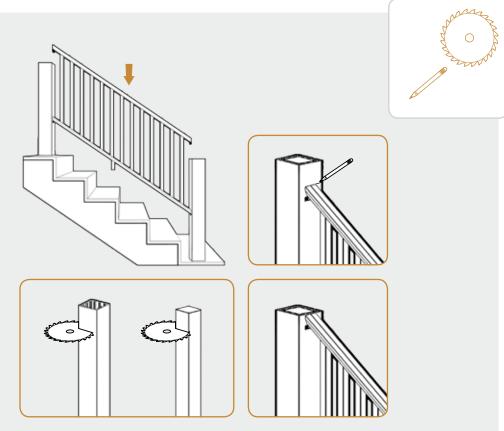
For sections up to 6': Place two Foot Blocks at 1/3 intervals on the rail

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

## MEASURE AND TRIM TOP POST AND TOP POST SLEEVE

- Temporarily place infill assembly in position.
- 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.

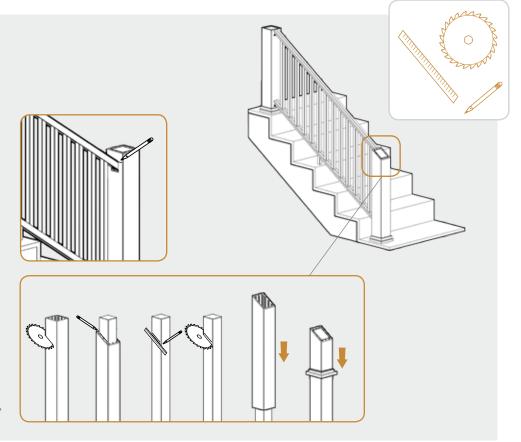






### MEASURE AND TRIM POST SLEEVES

- Mark where Top Universal Rail 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.
- Replace both Post Skirts.

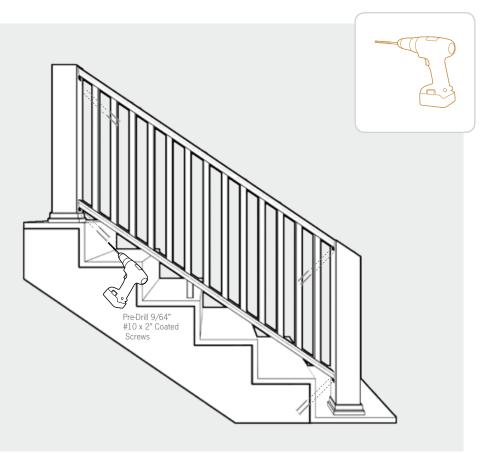


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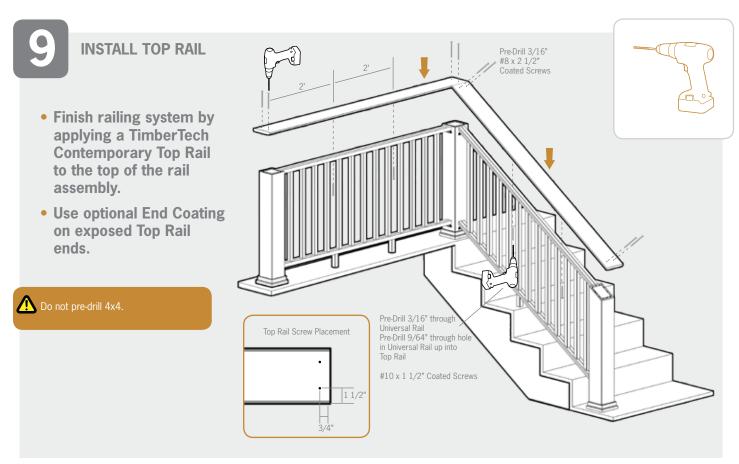
### ATTACH RAILS TO POSTS

 Position rail assembly between Posts.

Screws are designed to go in at a slight angle.







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