



TIMBERTECH CLASSIC COMPOSITE SERIES AND RESERVE RAILING INSTALL GUIDE

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TimberTech Reserve Rail can be installed with a continuous Top Rail in up to 16' lengths, measured from the center of the end posts. These applications require the use of a 4" Post Sleeve, 4" Post Skirt and a 4" x4" Post as an intermediate post, as well as unique fastening procedures. This Install Guide details these unique procedures.

TimberTech®

INSTALLING RAILING WITH BALUSTERS FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL

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IMPORTANT NOTES:

- Please read all instructions completely before starting any part of the installation. Always make sure to visit www.TimberTech.com to ensure you are viewing the most current installation instructions, care and cleaning, technical information and more.
- TimberTech Railing 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.
- · AZEK Co. LLC accepts no liability or responsibility for the improper installation of this product.
- TimberTech Railing may not be suitable for every application and it is the sole responsibility of the installer to be sure that TimberTech Railing 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.
- AZEK Co. LLC 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 AZEK Customer Service at 877-ASK-AZEK (877-2752935) 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 Classic Composite Series and TimberTech Reserve Rail Systems.
- IMPORTANT: Make sure the DRIVE TOOL/DRILL is configured or set to use the SCREW setting when driving and/or tightening
 all FASTENERS. It is very Important not to overdrive fasteners. The use of Impact type drill drivers can increase the risk of
 overdriving 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 Railing Install Guide may lead to
 personal injury, affect rail system performance and void the product warranty.
- The buildup or generation of static electricity is a naturally occurring phenomenon in many plastic based products such as carpeting, upholstery, and clothing, and can occur on alternative decking under certain environmental conditions. This static electricity can discharge once contact is made with hardware, railing, or other conductors of electricity.







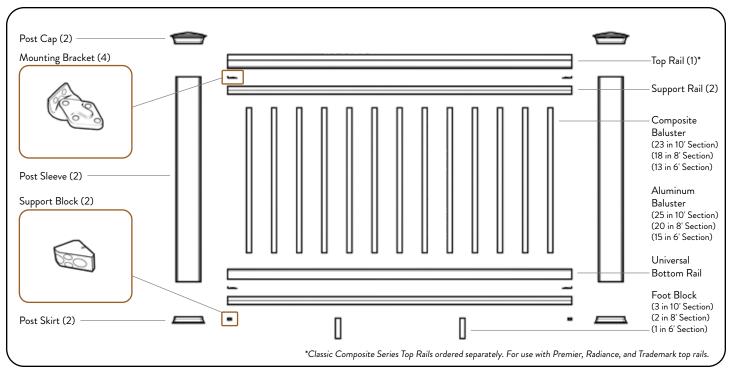
Find install videos, written instructions and a chat link at https://www.timbertech.com/installation-help.

NOTE: IF INSTALLING POST LIGHTING, WIRING MUST BE INSTALLED PRIOR TO SECURING POSTS TO DECK/STAIR SURFACE AND INSTALLING TOP RAILS.

It is the responsibility of the installer to meet all local code requirements and obtain all required building permits. The installer should determine and implement appropriate installation techniques for each installation situation. The AZEK Company or its reseller shall not be held responsible for improper or unsafe installations.

FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL







This entire section of instructions is for installation of Classic Composite Series and Reserve Rail systems. Installation of the RESERVE RAIL system is identical to the Classic Composite Series, except it uses the RESERVE BOTTOM RAIL instead of the Universal Bottom Rail.

IMPORTANT NOTES:

- · Prior to construction, check with your local regulatory agency for special code requirements in your area.
- Common railing height is 36" or 42".
- TimberTech Railing 10', 8' and 6' Rails are designed not to exceed 10', 8' and 6' from center of post to center of post, respectively.
- For all other applications, consult a design professional or a TimberTech Railing representative for more information.
- For all stair applications, maximum rail length must not exceed 91".
- If using anything other than aluminum support rail, the maximum rail length must not exceed 91".
- 4x4 lumber posts must be installed plumb and level with each other.
- · Cut slowly, using a thin kerf, finish saw blade to avoid chipping.
- · Read instructions completely to get an understanding of how the product goes together and how each piece affects the other.
- For all applications, a structural post must be used inside our Post Sleeve.
- Compatible with all Classic Composite Series Railing Infills.

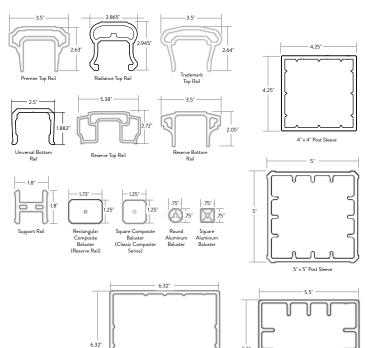


FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL

IMPORTANT NOTES:

- · Visit https://www.timbertech.com/installation-help to view TimberTech installation videos.
- · Consult your local building codes for guard and handrail requirements.
- TimberTech Railing 10', 8' and 6' Rails are designed not to exceed 10', 8' and 6' from center of post to center of post, respectively.
- · For all other applications, consult a design professional or a TimberTech Railing representative for more information. For stair applications maximum rail length must not exceed 91".
- 4x4 lumber posts must be installed plumb and level with each other.
- Cut slowly, using a thin kerf, finish saw blade to avoid chipping.
- Read instructions completely to get an understanding of how the product goes together and how each piece affects
- · For all applications, a structural post must be used inside our Post Sleeve.
- · Compatible with all Classic Composite Series Railing Infills.

COMPONENT DIMENSIONS



TOOLS REQUIRED

- Miter Saw
- 7/64" Drill Bit
- Measuring Tape

- Drill
- 3/16" Drill Bit
- Caulk Gun

COMPONENTS NEEDED FOR INSTALLING ONE TIMBERTECH RAIL SECTION

(TOP RAIL NOT INCLUDED IN CLASSIC COMPOSITE SERIES)

Components needed to complete install of 10', 8', and 6' rail sections

1 Universal Rail Kit = 1 Universal Rail Pack + 1 Baluster Pack

Kits only available in 36" height.

1 - Top Rail (Sold Seperately) 1 - Universal Bottom Rail

2 - Support Rails (1 - Aluminum Top Support Rail for 10') Foot Blocks (1 in 6' Kits, 2 in 8' Kits, 8 in 10' Kits)

Composite Balusters (13 in 6' Kits, 18 in 8' Kits, 23 in 10' Kits) Hardware Mounting Kit

Support Block Mounting Templates

ster Fastener Kit

- 2 Post Caps (Sold Seperately)2 Post Sleeves (Sold Seperately)
- 2 Post Skirts (Sold Seperately)

Components available
separately for
mix-and-match rail
systems

*Order Custom Universal Rail Packs-Laser Etched for Aluminum Balusters, CableRail, or Glass Infills

(Top Rails sold separately)

1 - Universal Bottom Rail (with Classic Composite Series) 2 - Support Rails (1 - Aluminum Top Support Rail for 10') Hardware Mounting Kit

Support Block Mounting Templates

Foot Blocks (1 in 6' Packs, - 2 in 8' Packs, - 3 in 10' Packs)

Composite Balusters

- 18 Balusters per Pack (23 required per 10' section) (18 required per 8' section) (13 required per 6' section) - 29" for 36" Railing
- 31" for 36" Railing (with less than 2" gap between deck & Bottom Rail)

Pack

· 35" for 42" Railing 37" for 42" Railing (with less than 2" gap

between deck & Bottom Rail) Baluster Fastener Kit

18 - #8x2" Screws 18 - #8x3" Screws

Aluminum Balusters

- 20 Balusters per Pack (25 required per 10' section) (20 required per 8' section)
- 29" for 36" Railing
- 31" for 36" Railing (with less than 2" between deck & Bottom Rail) - 35" for 42" Railing
- 37" for 42" Railing (with less than 2" between deck & Bottom Rail)

Baluster Fastener Kit

20 - #8x2" Screws 20 - #8x3" Screws

Hardware included in Hardware Mounting Kits:

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

Additional Components Needed for Each System

(Sold Seperately)

1 - Top Rail

2 - Post Caps 2 - Post Sleeves

2 - Post Skirts

MEASURING YOUR RAILING AREA

- Measurements are from center to center of the posts. Rails are produced in 10', 8' and 6' to allow for finished end cuts and angles.
- Determine how many 10', 8' and 6' TimberTech Rail Sections you need and check to be sure you have all the components (and quantities) listed in the chart shown.

FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL





IMPORTANT NOTES:

Be sure to cut Post Sleeves such that finished rail height is at least 36" high for a 36" rail application and 42" high for a 42" application.

For all rail installations, post and post covers must be plumb and aligned with

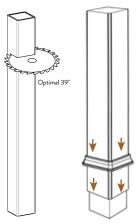
For Over-the-Post applications, it is critical that Posts be of a consistent height (e.g. the tops of all post sleeves are level and on plane with each other).

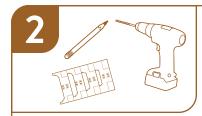
TIP: To ensure that the tops of all post sleeves are level, you may use a traditional 8 ft. level or a string line to establish a common level across all post sleeves and cut at that level. Alternatively, you may use a laser level to "shoot" a level mark on each post sleeve and then cut at that mark.

39" above deck surface is optimal for 36" railing heights.

INSTALL POST SLEEVES

- Trim Post Sleeves to desired length.
- Slide Post Sleeves and Post Skirt over post (do not force). Post sleeve will be slightly larger than the post.
- Ensure posts are square and plumb. Shim as needed to plumb.





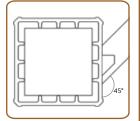
INSTALL LOWER SUPPORT BLOCKS

• Position template at bottom of Post Sleeve above Post Skirt.

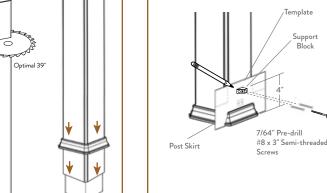
If you do not have the template, position the top of the Support Block 4" above the deck.

emplate

Support



For angled rail installations, align angled face of Support Block parallel to rail section.







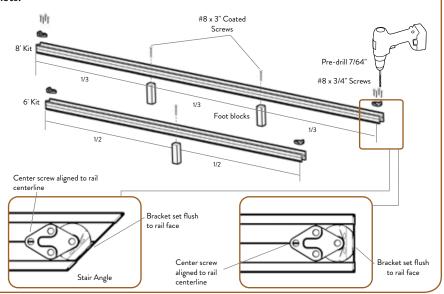
For sections up to 6': Place one Foot Block in the center of the rail.

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

Space three Foot Blocks approximately at 1/4 intervals on the rail.

CUT AND ASSEMBLE BOTTOM SUPPORT RAIL

- Cut the Bottom Support Rail to length.
- · Add support blocks as required.
- · Attach brackets.





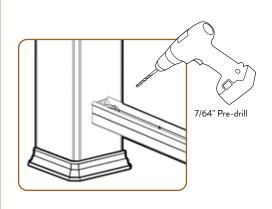


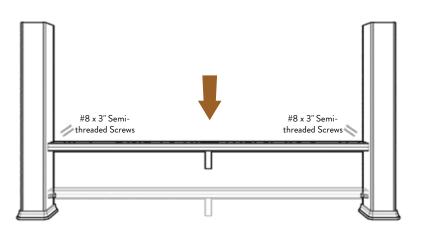
FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL

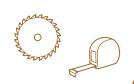


INSTALL BOTTOM SUPPORT RAIL

- Position Bottom Support Rail assembly onto Support Blocks.
- Pre-drill holes into post sleeves only.
- · Attach brackets with green coated screws.





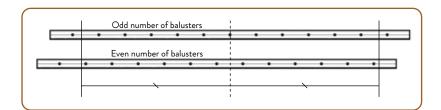


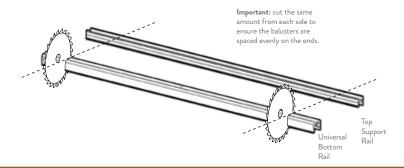
SPACE BALUSTER AND TRIM RAILS

- Measure distance between the posts at the Bottom Support Rail.
- Transfer measurement to Universal Bottom Rail. To prevent end balusters from interfering with the post sleeves, center either on a pre-drilled hole, or between two pre-drilled holes (see diagram below).
- Cut Universal Bottom Rail and Top Support Rail to length.



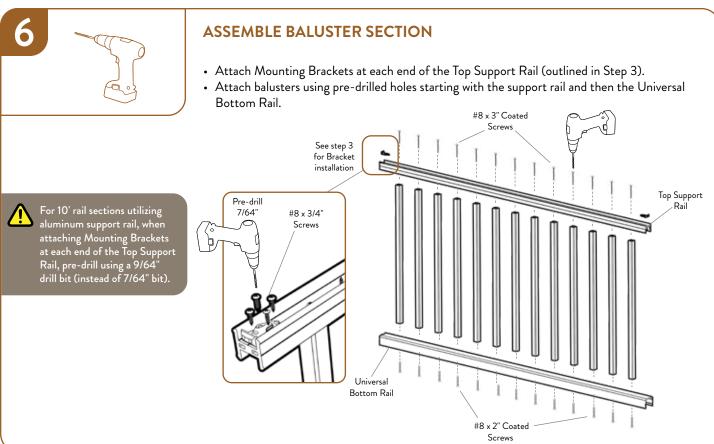
The space between the end baluster and post can not exceed 4"

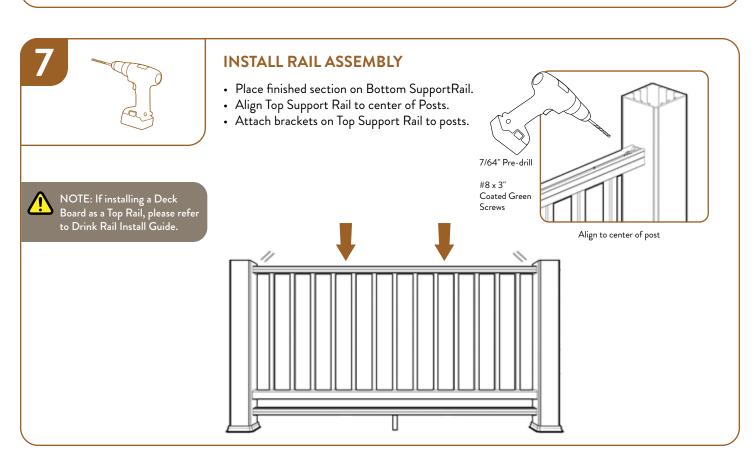




FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL





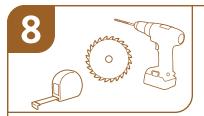






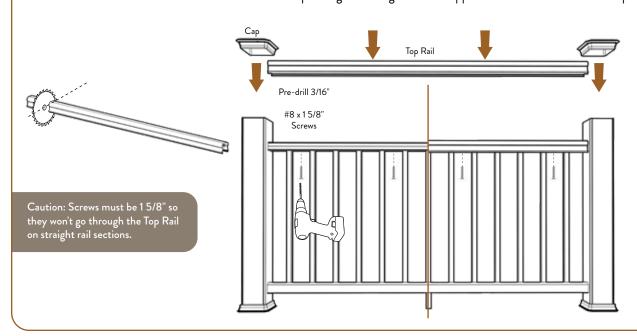






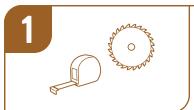
INSTALL TOP RAIL AND POST CAPS

- Measure and cut Top Rail (not included) to length. Trim both ends for a clean cut. If installing Deck board as Drink Rail, please refer to Drink Rail Install Guide
- Important: Pre-drill 3/16" holes through the top support rail as illustrated below.
- Attach Top Rail using 15/8" screws, driving screws up through bottom of support rail into Top Rail.
- · Attach Post caps using exterior grade caulk applied to the underside of the cap.



FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL





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IMPORTANT NOTES:

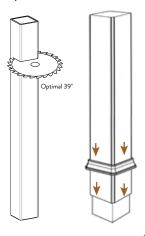
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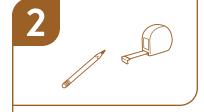
For all rail installations, post and post covers must be plumb and aligned with one another.

For Over-the-Post applications, it is critical that Posts be of a consistent height (e.g. the tops of all post sleeves are level and on plane with each other).

INSTALL POST SLEEVES

- Trim Post Sleeves to desired length.
- Slide Post Sleeves and Post Skirt over post (do not force). Post sleeve will be slightly larger than the post.
- Ensure posts are square and plumb. Shim to plumb as needed.

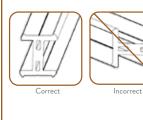


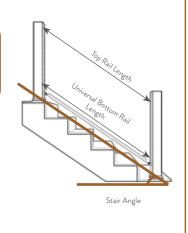


Support Rails are rotated 90° for stair rail applications.

MEASURE SUPPORT RAILS

- Determine measurements and angle as shown.
- Trim both the Top Support Rail and the Bottom Support Rail to those dimensions.
- Test fit rails to check for accuracy.





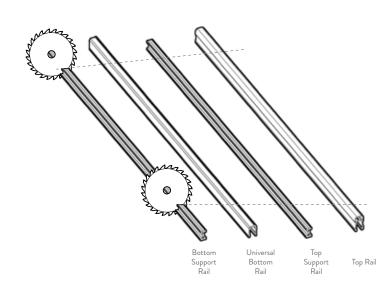
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TRIM RAILS

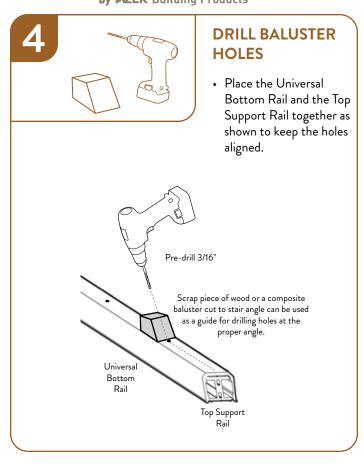
- Transfer measurement from Bottom Support Rail to Universal Bottom Rail.
- Trim Top Rail to match Top Support Rail at appropriate angle.

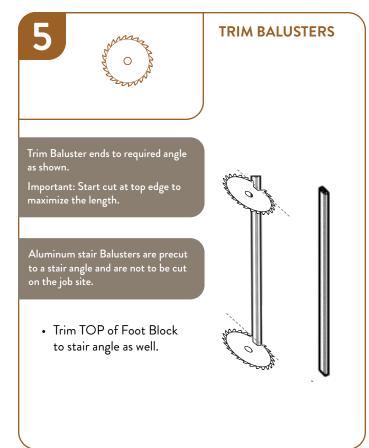
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FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL







ASSEMBLE BALUSTERS

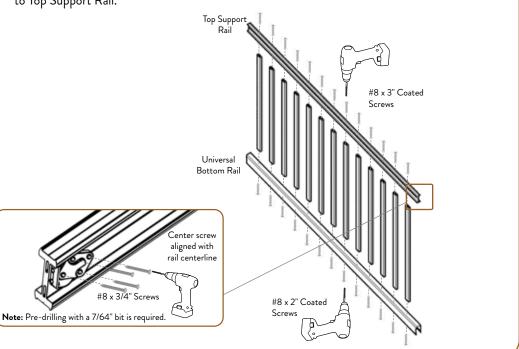
 Attach Balusters to Top and Bottom Support Rails and attach Brackets to Top Support Rail.



Tip for Universal Bottom Rail: Partially drive screws into all Balusters before driving them in completely.



Brackets must be on the side of the rail facing the stairs.



FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL







INSTALL BOTTOM SUPPORT RAIL

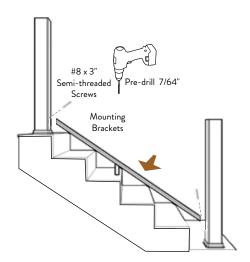
- · Attach Mounting Brackets to Bottom Support Rail.
- Secure Mounting Brackets to posts.
- Wedge Foot Block under Support Rail & Attach.

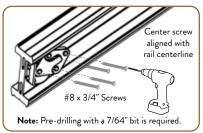


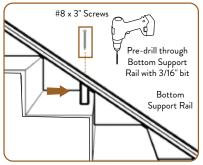
Brackets must be installed to the stair tread side of the rail.

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.











NOTE: If installing a Deck Board as a Top Rail, please refer to Drink Rail Install Guide.

INSTALL RAIL ASSEMBLY

• Mark ends of support rail for position of support block.

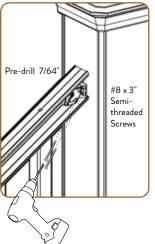
way to fasten Support Block.

• Rotate Rail assembly out of



threaded Screws

• Secure Mounting Brackets to Posts.





FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL

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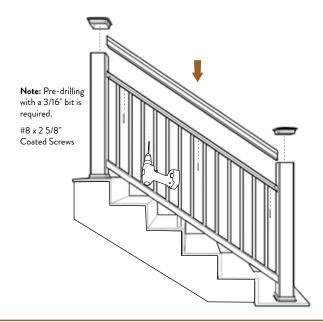


INSTALL TOP RAIL AND POST CAPS

- If installing Deck board as Drink Rail, please refer to Drink Rail Install Guide
- Attach Top Rail using 2 5/8" screws, driving screws up through bottom of support rail into Top Rail.
- Attach Post caps using exterior grade caulk applied to the underside of the cap.



For typical stair angles, use provided 2 5/8" Screws to fasten the Top Rail.



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NOTES	TimberTech by AZEK Building Product





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