



TIMBERTECH CLASSIC COMPOSITE SERIES AND RESERVE RAILING INSTALL GUIDE

Installing TimberTech Railing with Balusters	3
Installing TimberTech Stair Railing with Balusters	9
Installing TimberTech Railing with CableRail by Feeney®	13
Installing TimberTech Stair Railing with CableRail by Feeney®	22
Installing TimberTech Railing with Glass Infill	30
Installing TimberTech Stair Railing with Glass Infill	38
Installing TimberTech Reserve Rail Over the Post	43
Notes	51

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

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.



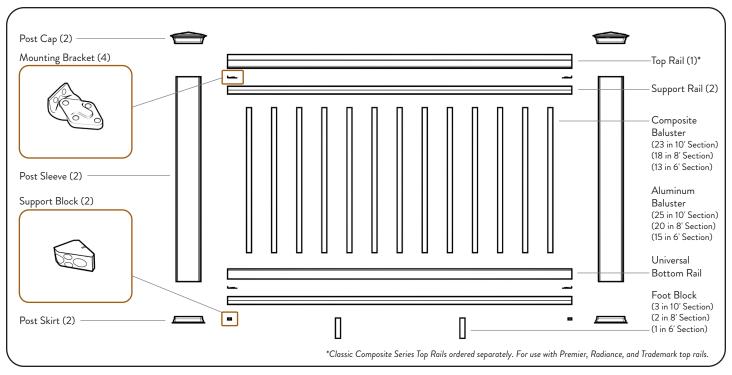
Find install videos, written instructions and a chat link at https://www.timbertech.com/
installation-help.

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.

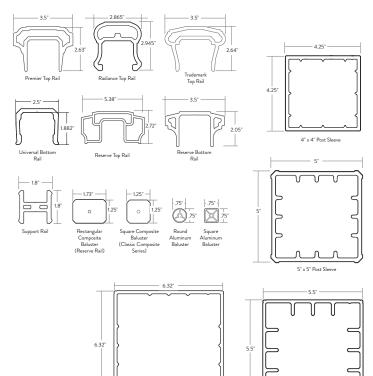


FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL

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 the other.
- 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)

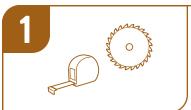
(
Components needed to complete install of 10', 8', and 6' rail sections One Kit = One Rail Pack + One Baluster Pack + One Baluster Screw Kit. Kits only available in 36" height.		1 - Top Rail 1 - Universal Bottom Rail 2 - Support Rails (1 - Aluminur Foot Blocks - 1 in 6' Kits, - 2 in 8' Kits, - 8 i Composite Balusters - 13 in 6' Kits, - 18 in 8' Kits, - 1 Hardware Mounting Kit Support Block Mounting Temp Baluster Screw Kit	in 10' Kits, 23 in 10' Kits	
Components available separately for mix-and-match rail systems	TimberTech Rail Pack	(Top Rails sold separately) 1 - Universal Bottom Rail (with 2 - Support Rails (1 - Aluminur Hardware Mounting Kit Support Block Mounting Temp Foot Blocks - 1 in 6' Packs, - 2 in 8' Packs	m Top Support Rail for 10')	
	Baluster Pack	Composite Balusters - 18 Balusters per Pack (23 required per 10' section) (18 required per 6' section) (13 required per 6' section) - 29' for 36' Railing (with less than 2' gap between deck & Bottom Rail) - 35" for 42" Railing (with less than 2'' gap between deck & Bottom Rail Baluster Screw Kit 18 - #8x2" Screws 18 - #8x3" Screws	Aluminum Balusters - 20 Balusters per Pack (25 required per 10' section) (20 required per 6' section) (15 required per 6' section) - 29" for 36" Railing (with less than 2" gap between deck & Bottom Rail) - 35" for 42" Railing (with less than 2" gap between deck & Bottom Rail) Baluster Screw 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 15/8" Screws 6 - #8 x 2 5/8" Screws (Stairs Only) 6 - #8 x 3" Screws 12 - #8 x 3" Screws T20 Driver Bit			
Additional Components Needed for Each System		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





M

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 one another.

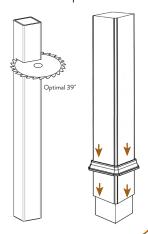
For Over-the-Post applications, it is critical that Posts be of a consistent height (e.g. the tops of all post sleeves are level and on plane with each other).

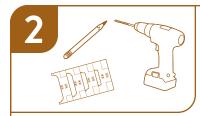
TIP: To ensure that the tops of all post sleeves are level, you may use a traditional 8 ft. level or a string line to establish a common level across all post sleeves and cut at that level. Alternatively, you may use a laser level to "shoot" a level mark on each post sleeve and then cut at that mark.

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.

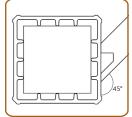




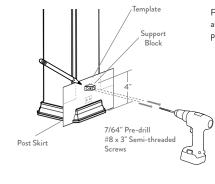
INSTALL LOWER SUPPORT BLOCKS

 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.



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



3





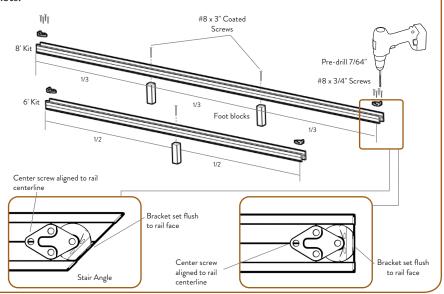
For sections up to 6': Place one Foot Block in the center of the rail.

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.

CUT AND ASSEMBLE BOTTOM SUPPORT RAIL

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



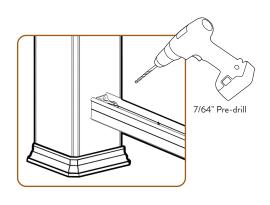


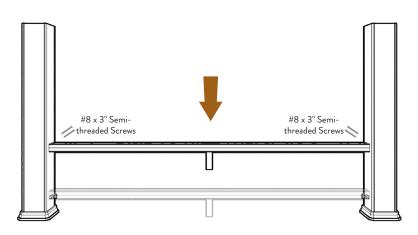




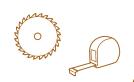
INSTALL BOTTOM SUPPORT RAIL

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





5

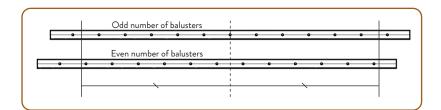


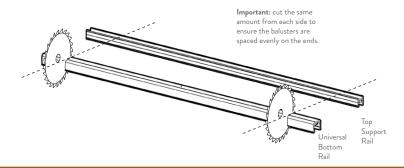
SPACE BALUSTER AND TRIM RAILS

- 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.



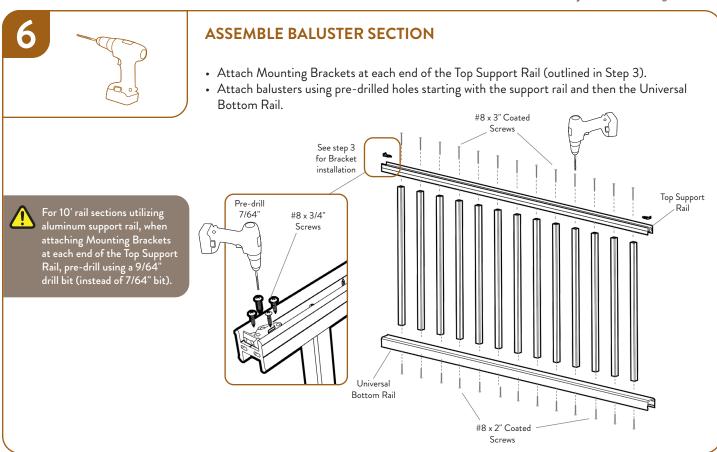
The space between the end baluster and post can not exceed 4"

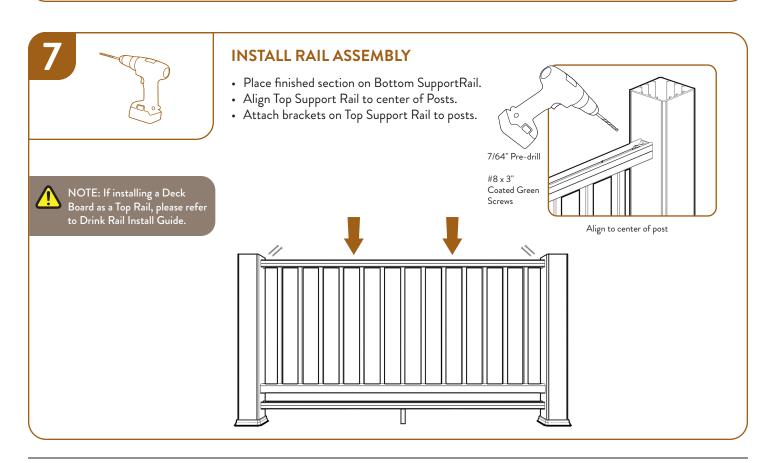




FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL







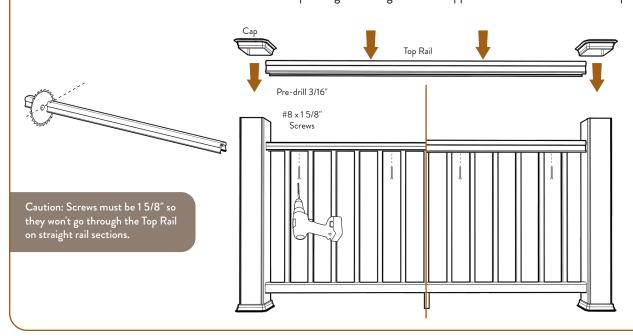






INSTALL TOP RAIL AND POST CAPS

- · 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





\wedge

IMPORTANT NOTES:

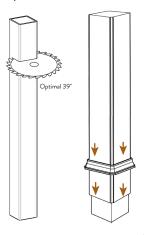
Be sure to cut Post Sleeves such that finished rail height is at least 36" high for a 36" rail application and 42" high for a 42" application.

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

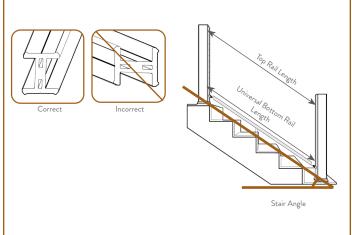




Support Rails are rotated 90° for stair rail applications.

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.



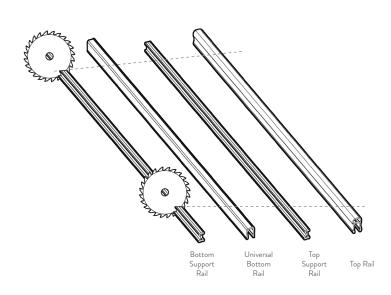
3



TRIM RAILS

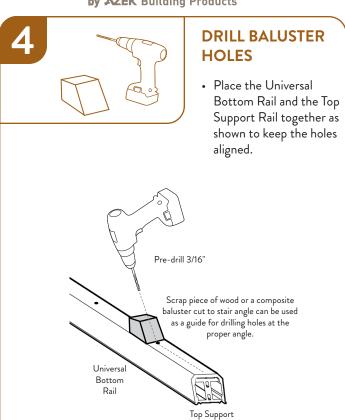
- Transfer measurement from Bottom Support Rail to Universal Bottom Rail.
- Trim Top Rail to match Top Support Rail at appropriate angle.

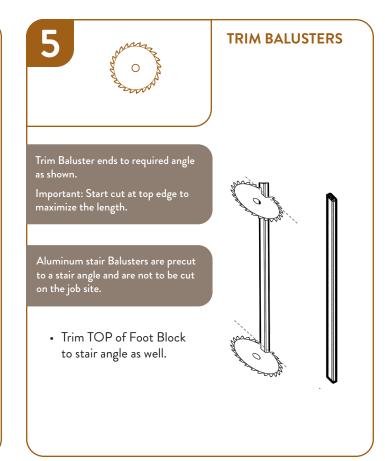
This entire section of instructions is for installation of Classic Composite Series and Reserve Rail systems. Installation of the RESERVE RAIL system is identical to the Classic Composite Series, except it uses the RESERVE BOTTOM RAIL instead of the Universal Bottom Rail.

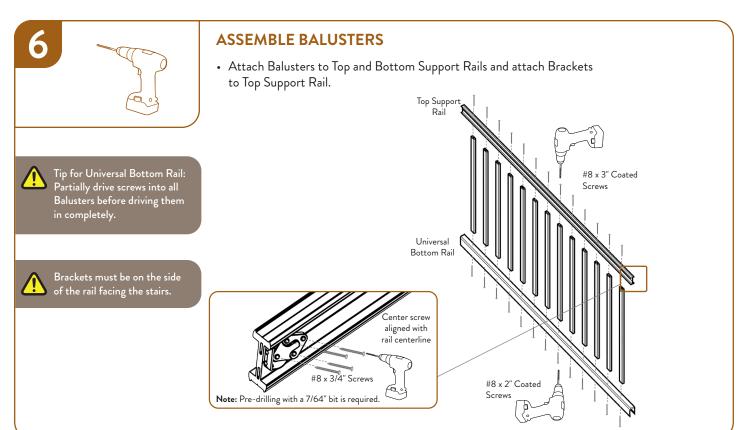












FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL







INSTALL BOTTOM SUPPORT RAIL

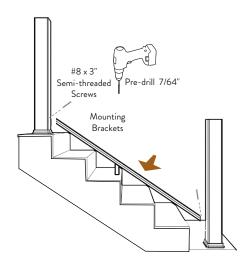
- · Attach Mounting Brackets to Bottom Support Rail.
- Secure Mounting Brackets to posts.
- Wedge Foot Block under Support Rail & Attach.

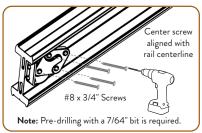


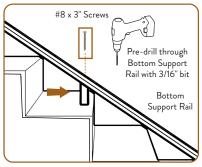
Brackets must be installed to the stair tread side of the rail.

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

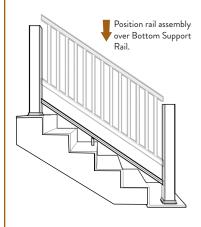
For sections 6' to 8': Space two Foot Blocks approximately at 1/3 intervals on the rail.







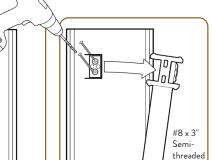




NOTE: If installing a Deck Board as a Top Rail, please refer to Drink Rail Install Guide.

INSTALL RAIL ASSEMBLY

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

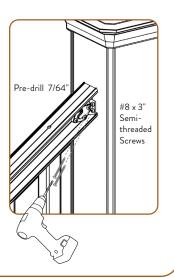


• Rotate Rail assembly out of

way to fasten Support Block.

Screws







FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL

9

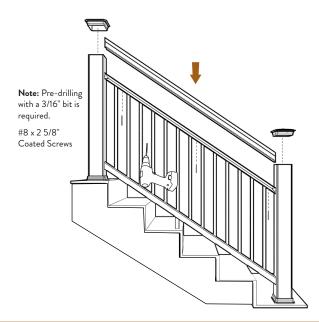


INSTALL TOP RAIL AND POST CAPS

- 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.

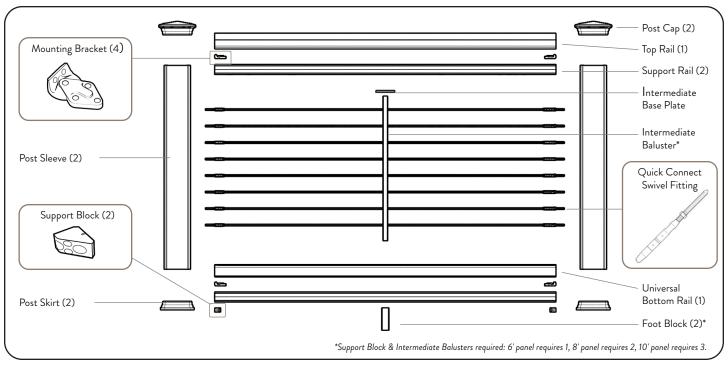


For typical stair angles, use provided 2 5/8" Screws to fasten the Top Rail.



FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL





IMPORTANT NOTES:

- TimberTech Custom Rail Packs are available in 10', 8' and 6' lengths.
- 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.
- Cable rail is not compatible with secure mount post.
- 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.



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.

TOOLS REQUIRED

- Miter Saw
 Cable Cutters
- Tape Measure #2 Square Drive
- Drill Bits: 7/64", 1/4", 3/16", 1/8"
- Extended 1/4" Drill Bit
- 2 3/8" Open-End Wrenches



FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL

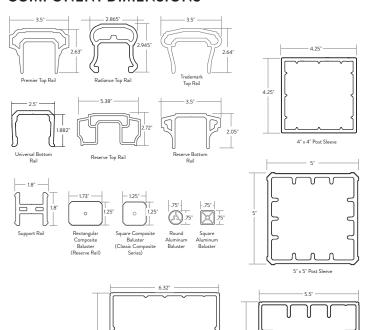
Components needed

MEASURING YOUR RAILING AREA

- Measurements are from center to center of the posts.
 Rail components 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.

COMPONENT DIMENSIONS

6.32



COMPONENTS NEEDED FOR INSTALLING ONE TIMBERTECH RAIL SECTION

Hardware Mounting Kit

to complete install of 10', 8', and 6' rail sections One Kit = One Rail Pack + One Baluster Pack + One Baluster Screw Kit. Kits only available in 36" height.		4 - Mounting Brackets 2 - Support Blocks (6' panel requires 3) 16 - #8 x 3/4" screws 6 - #8 x 15/8" Screws 6 - #8 x 2 5/8" Screws 6 - #8 x 2 5/8" screws (Stairs O 6 - #8 x 3" Screws 12 - #0 x 3" Semi-threaded Scre T20 Driver Bit	nly)
Components available separately for mix-and-match rail systems	TimberTech Rail Custom Rail Pack	(Top Rails sold separately) 1 - Universal Bottom Rail (with 0 2 - Support Rails (1-Aluminum 1 Hardware Mounting Kit Support Block Mounting Templa Foot Blocks - 1 in 6' Packs, - 2 in 8' Packs, -	Top Support Rail for 10')
	CableRail Components	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' Cable -100' spool or 500' spool	36" Hardware Kit - 9 Quick-Connect Fittings - 9 Quick-Connect Swivel Fittings - 18 Hanger Bolts - 9 lock nuts 42" Hardware Kit - 9 Quick-Connect Fittings - 9 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 Post	CableRail Accessory Pack Includes: - Quick-Connect release tool - Lacing Needle - Hanger Bolt Installation Tool

FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL





\bigwedge

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 one another.

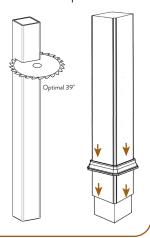
For Over-the-Post applications, it is critical that Posts be of a consistent height (e.g. the tops of all post sleeves are level and on plane with each other).

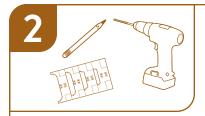
TIP: To ensure that the tops of all post sleeves are level, you may use a traditional 8 ft. level or a string line to establish a common level across all post sleeves and cut at that level. Alternatively, you may use a laser level to "shoot" a level mark on each post sleeve and then cut at that mark.

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.

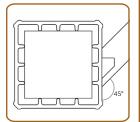




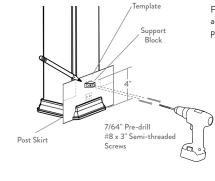
INSTALL LOWER SUPPORT BLOCKS

 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.



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



3





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

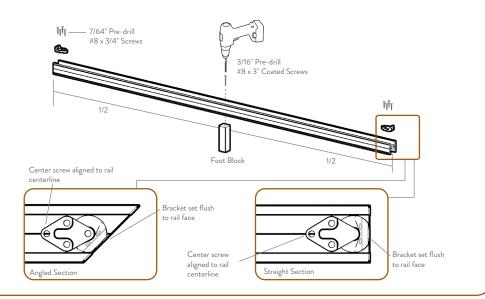
For sections 6' to 8': Space two Foot Blocks approximately at 1/3 intervals on the rail.

For sections 8' to 10':

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

CUT AND ASSEMBLE BOTTOM SUPPORT RAIL

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





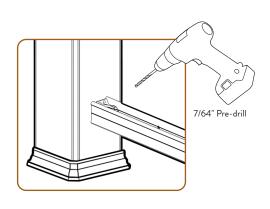
FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL

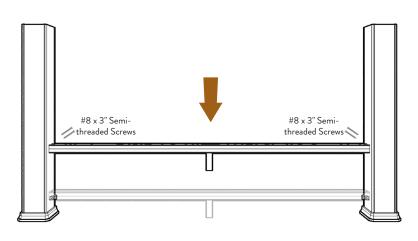




INSTALL BOTTOM SUPPORT RAIL

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





5





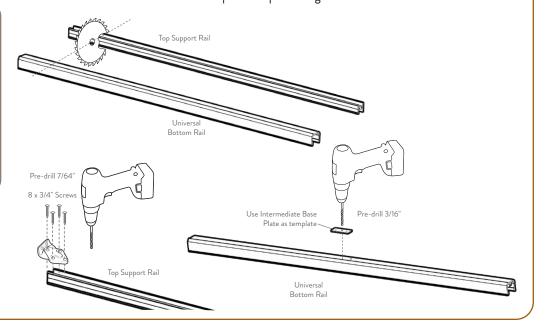


- Measure distance between the posts at the Universal Bottom Rail and Top Support Rail.
- Cut Universal Bottom Rail and Top Support Rail to length.
- Attach Brackets to the Top Support Rail.
- Use Intermediate Base Plate as a template for predrilling hole for intermediate baluster.

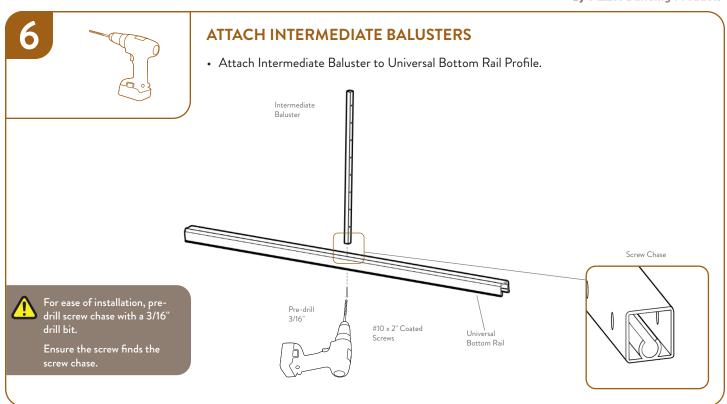


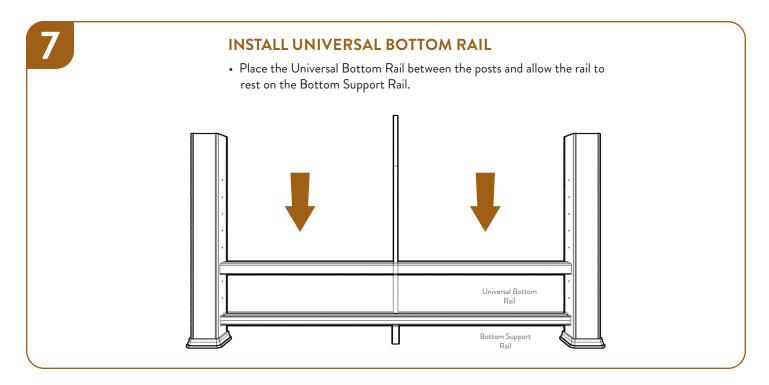
6' sections require
1 Intermediate Baluster;
8' sections require
2 Intermediate Balusters;
10' sections require
3 Intermediate Balusters.

For 10' rail sections utilizing aluminum support rail, when attaching Mounting Brackets at each end of the Top Support Rail, pre-drill using a 9/64" drill bit (instead of 7/64" bit).











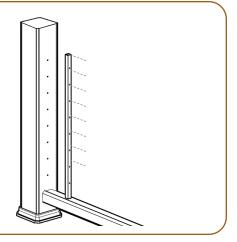




8

TRANSFER HOLE LOCATION ONTO POST SLEEVE

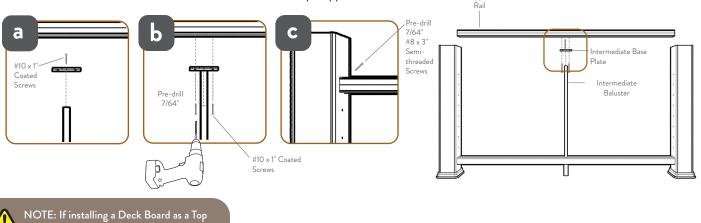
- Use an extra Intermediate Baluster, rested on the Universal Bottom Rail, as a template for the CableRail Hardware and through holes.
- Using a 3/16" drill bit to transfer your marks onto the Post Sleeve.



9

ATTACH TOP SUPPORT RAIL

• Attach Intermediate Baluster Base Plate to Top Support Rail

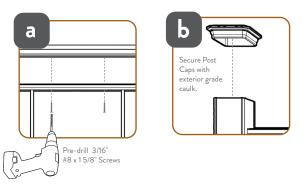


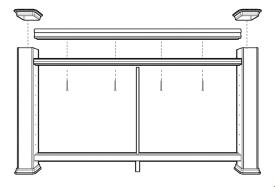
Rail, please refer to Drink Rail Install Guide.

10

INSTALL TOP RAIL AND POST CAPS

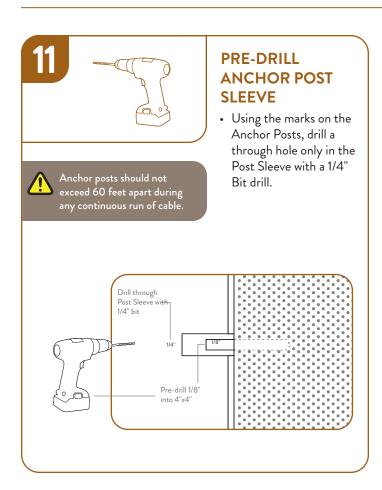
- Measure and cut Top Rail (not included) to length. Trim both ends for a clean cut. If installing Deck board as Drink Rail, please refer to Drink Rail Install Guide
- Attach Top Rail using 15/8" screws, driving screws up through bottom of support rail into Top Rail.
- Attach Post caps using exterior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

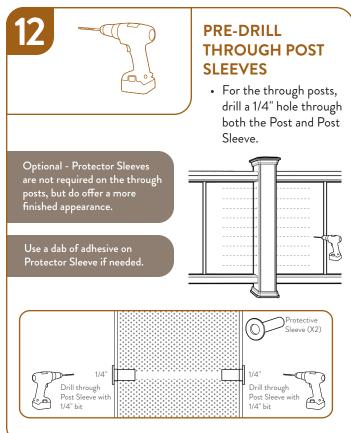




FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL



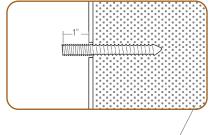




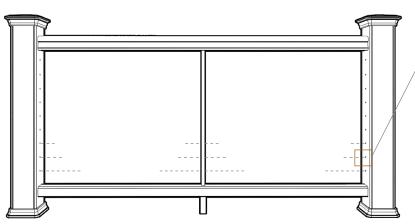
13

DRIVE IN HANGER BOLTS

- On Anchor Posts, screw the Hanger Bolts into the pilot holes in the Post with the Hanger Bolt Installation Tool (included with CableRail Accessory Kit, purchased separately).
- Once Hanger Bolts are all driven in, then screw on Quick-Connect Fittings.



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



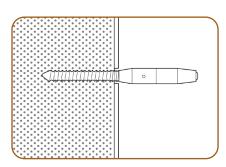


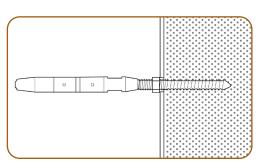
FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL

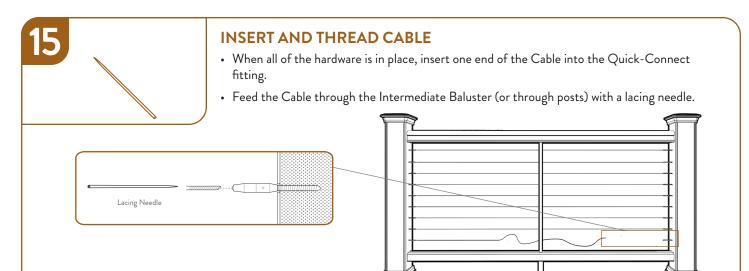
ATTACH QUICK-CONNECT AND QUICK-CONNECT SWIVEL FITTINGS

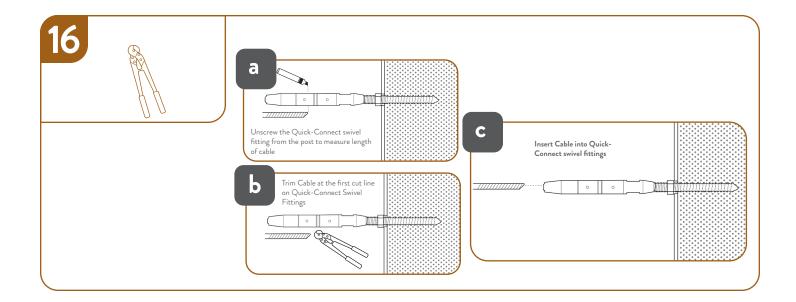
- Screw on Quick-Connect fittings snuggly against Post Sleeve onto one side of the railing and lock nuts onto hanger bolts on the other side.
- · Screw on Quick-Connect Swivel fitting onto the Hanger Bolt with the lock nut already installed.

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









FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL



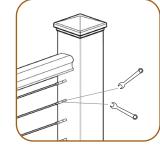


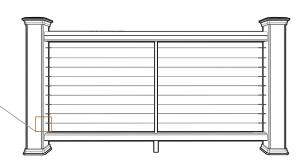


ATTACH QUICK-CONNECT AND QUICK-CONNECT CABLE FITTINGS

- Use a set of 3/8" open-ended wrenches to tighten the Cables using the "swivel" end, insuring the Cables do not twist. Tighten the center cable first, then in an alternating pattern from top to bottom.
- Once the Cable is tight, tighten the lock nuts against the Quick-Connect swivel fitting.



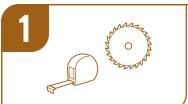








FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL



IMPORTANT NOTES:

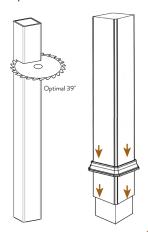
Be sure to cut Post Sleeves such that finished rail height is at least 36" high for a 36" rail application and 42" high for a 42" application.

For all rail installations, post and post covers must be plumb and aligned with 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.
- Post 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 plum as needed.

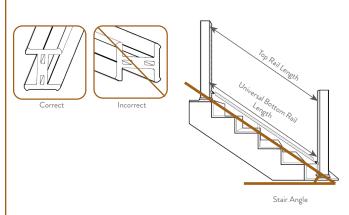




Support Rails are rotated 90° for stair rail applications.

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.





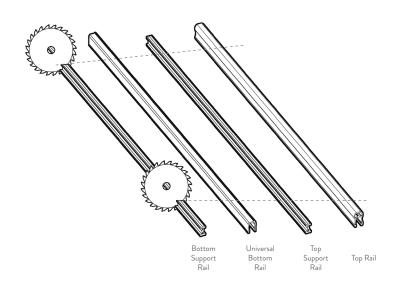


TRIM RAILS

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



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.



FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL

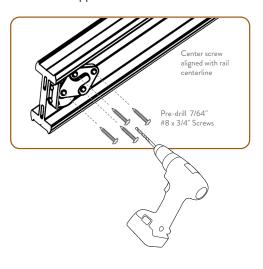




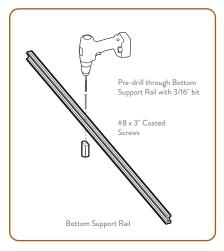


PREP BOTTOM SUPPORT RAIL

 Attach Mounting Brackets to Bottom Support Rail.



• Trim and Attach Foot Blocks.



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.

5

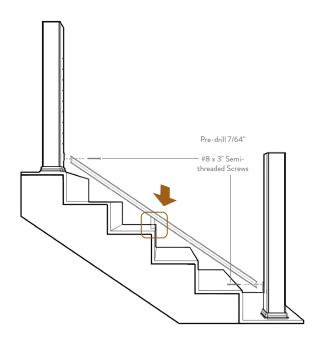


INSTALL BOTTOM SUPPORT RAIL

• Secure Mounting Brackets.



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

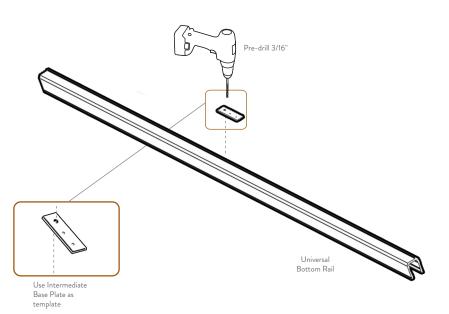




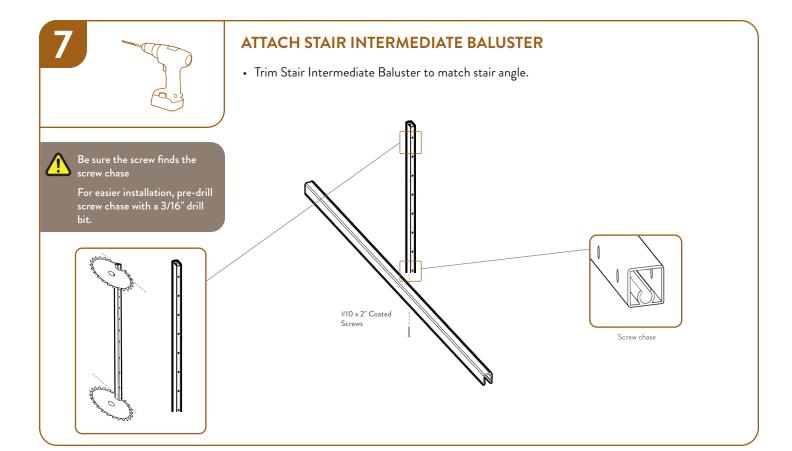
FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL



• Use Intermediate Base Plate as a template for predrilling hole for intermediate baluster.

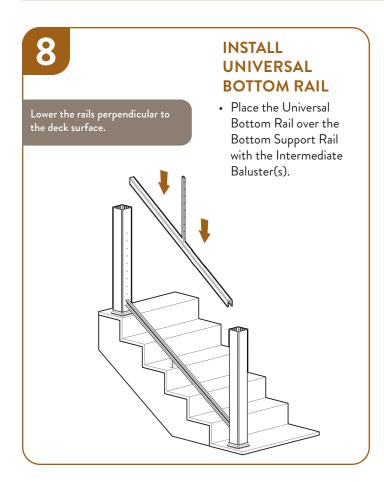


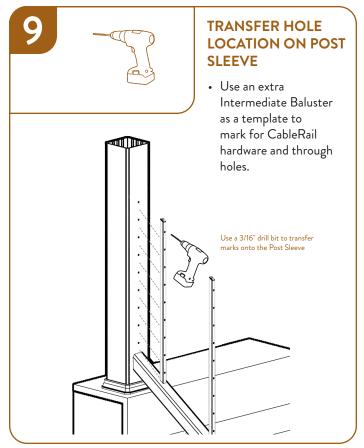
Use the Intermediate Base Plate as a Template, as shown to the right.

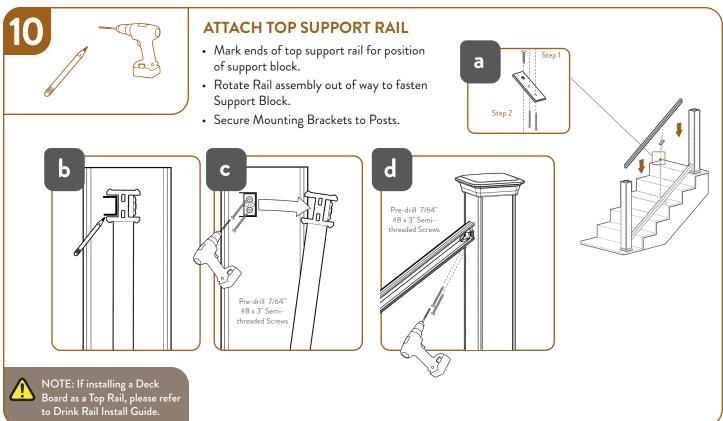


FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL







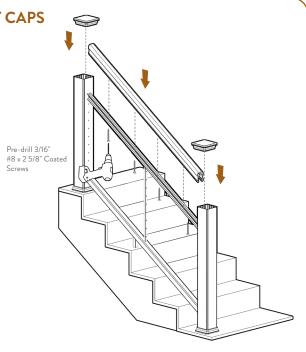


FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL

INSTALL TOP RAIL AND POST CAPS



- Position Top Rail over Support Rail and attach with screws.
- Attach Top Rail using 2 5/8" screws, driving screws up through bottom of support rail into Top Rail.
- Secure Post Caps with exterior grade caulk.



12

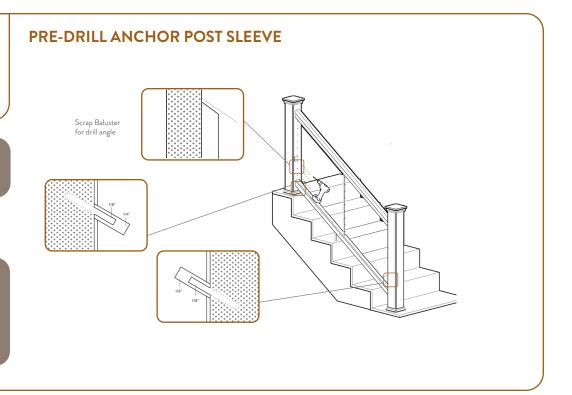


Drill a through hole only in the post sleeve with a 1/4" drill bit at the same angle as the stair run



Use a scrap piece of baluster trimmed at the stair angle as a guide.

Anchor posts should not exceed 60 feet apart during any continuous run of cable.



FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL





DRIVE IN HANGER BOLTS

On Anchor Posts, screw the Hanger Bolts into the pilot holes in the Post with the Hanger Bolt Installation Tool (included with CableRail Accessory Kit, purchased separately).

Bottom Anchor Post

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

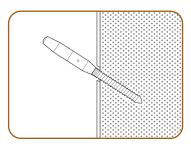
15 ATTACH QUICK CONNECT FITTINGS

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

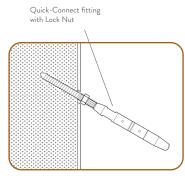
Top Anchor Post



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

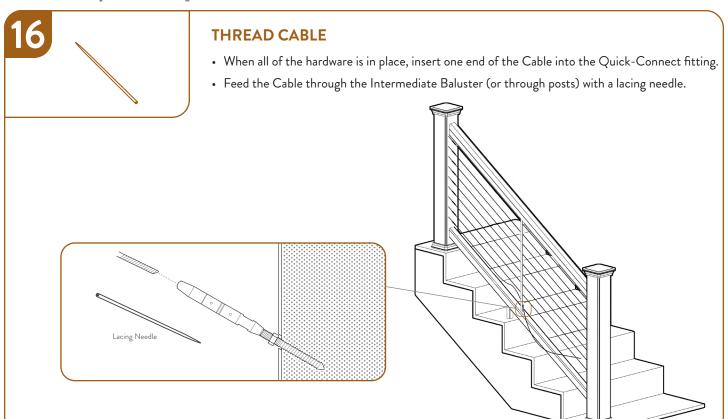


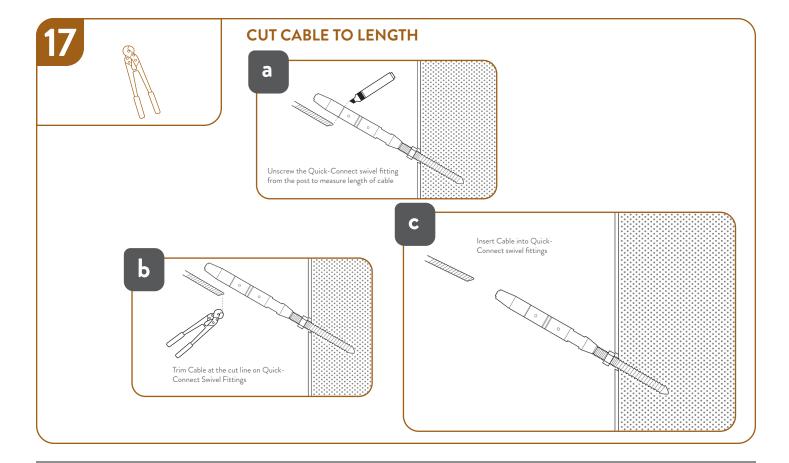
On the side with the lock nuts, screw on the Quick-Connect fittings after the lock nuts, onto the hanger bolts





FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL





FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL



18



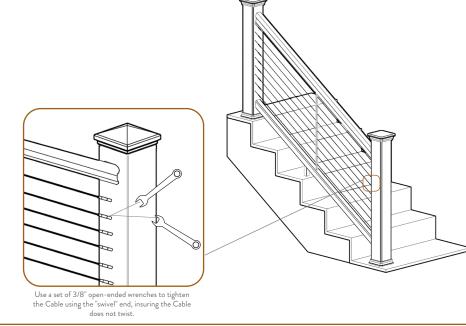
TIGHTEN CABLE

- Use a set of 3/8" open-ended wrenches to tighten the Cables using the "swivel" end, insuring the Cables do not twist. Tighten the center cable first, then in an alternating pattern from top to bottom.
- Once the Cable is tight, tighten the lock nuts against the Quick-Connect swivel fitting.





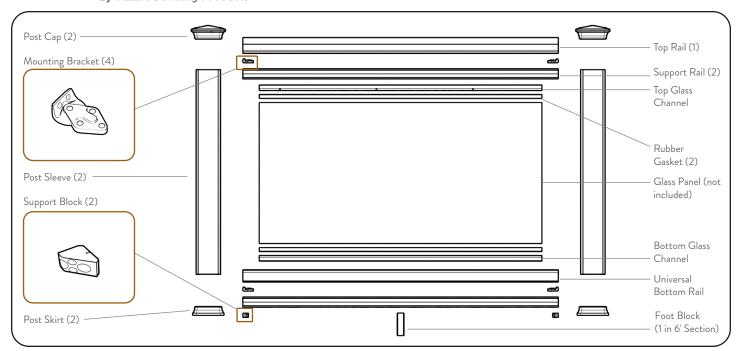
If necessary, the Cable can be removed from the Quick-Connect fitting by using the Quick-Connect Release Tool.



INSTALLING RAILING WITH GLASS INFILL



FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL



IMPORTANT NOTES:

- TimberTech Railing for Glass Infill is available in 6' lengths.
- Visit https://www.timbertech.com/installation-help to view TimberTech installation videos.
- Consult your local building codes for guard and handrail requirements.
- TimberTech Railing 6' Rails are designed not to exceed 6' from center of post to center of post.
- For all other applications, consult a design professional or a TimberTech Railing representative for more information.
- 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.



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.

TOOLS REQUIRED

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

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

INSTALLING RAILING WITH GLASS INFILL

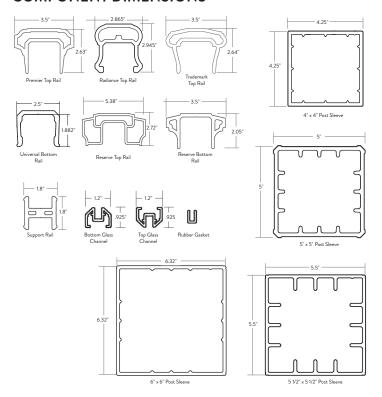
FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL



MEASURING YOUR RAILING AREA

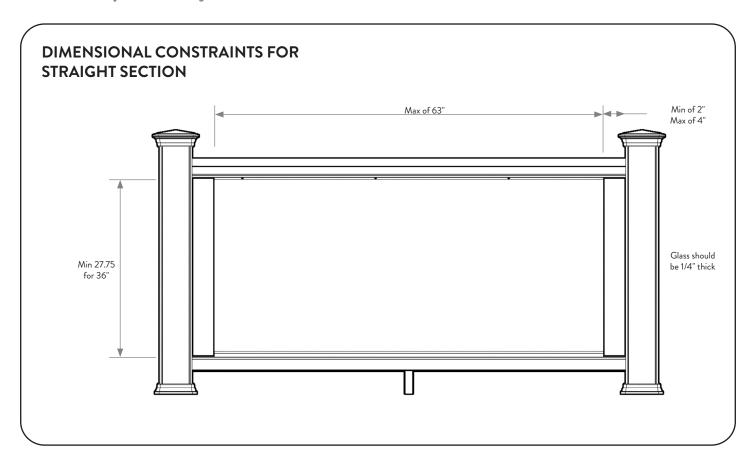
- Measurements are from center to center of the posts.
 Railing components are produced in 6' lenghts to allow for finished end cuts and angles.
- Determine how many 6' TimberTech Rail Sections you need and check to be sure you have all the components (and quantities) listed in the chart shown.

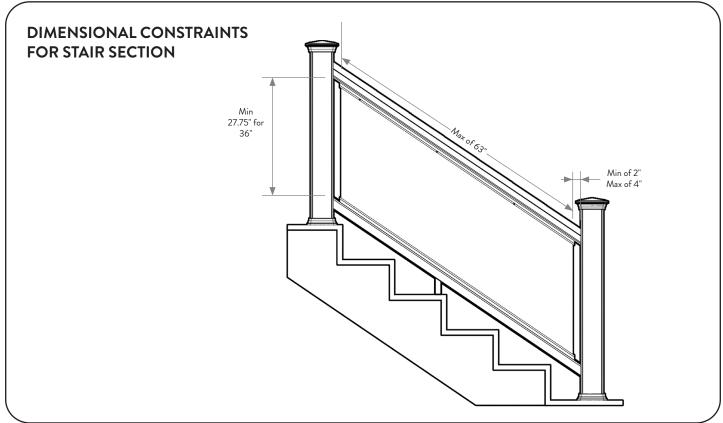
COMPONENT DIMENSIONS



COMPONENTS NEEDED FOR INSTALLING ONE TIMBERTECH RAIL SECTION

Components available separately for mix-and- match rail systems	TimberTech Custom Rail Pack	Top Rail Universal Bottom Rail (with Classic Composite Series) Support Rails Hardware Mounting Kit Support Block Mounting Templates Foot Block
Hardware included in Hardware Kits:		4 - Mounting Brackets 2 - Support Blocks 16 - #8 x 3/4" Screws 6 - #8 x 15/8" 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
Glass Hardware Pack		1 - Top Glass Channel 1 - Bottom Glass Channel 2 - Rubber Gaskets 6 - #8 x 2 1/4" Screws 6 - #8 x 3" Screws 3 - #8 x 1" Screws
Additional Components Needed for Each System	<u>^</u>	1/4" Tempered Glass must be sourced locally (See attached reference sheet). 2 - Post Caps 2 - Post Sleeves 2 - Post Skirts

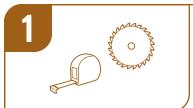




INSTALLING RAILING WITH GLASS INFILL

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

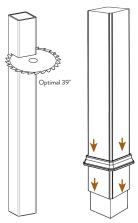
For Over-the-Post applications, it is critical that Posts be of a consistent height (e.g. the tops of all post sleeves are level and on plane with each other).

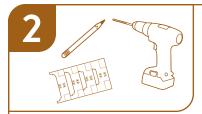
TIP: To ensure that the tops of all post sleeves are level, you may use a traditional 8 ft. level or a string line to establish a common level across Alternatively, you may use a laser level to "shoot" a level mark on each post sleeve and then cut at that mark.

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

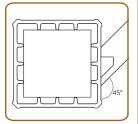
· Position template at bottom of post sleeve above post skirt.

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

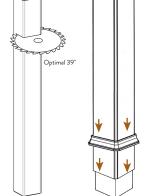
Геmplate

7/64" Pre-drill #8 x 3" Semithreaded Screws

Support



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



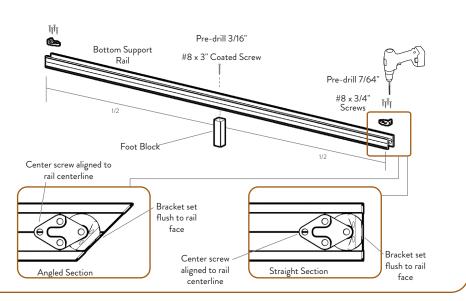




For sections up to 6': Place one Foot Block in the center of the rail.

CUT AND ASSEMBLE BOTTOM SUPPORT RAIL

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



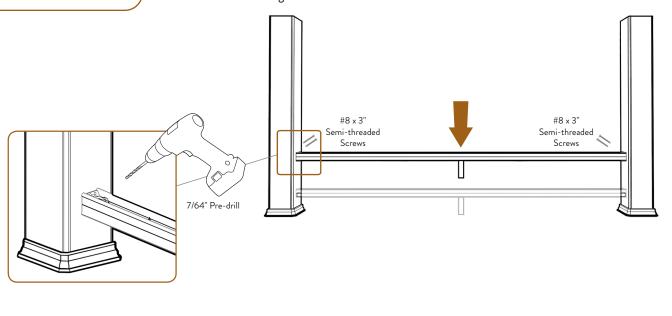








· Attach brackets with green coated screws.



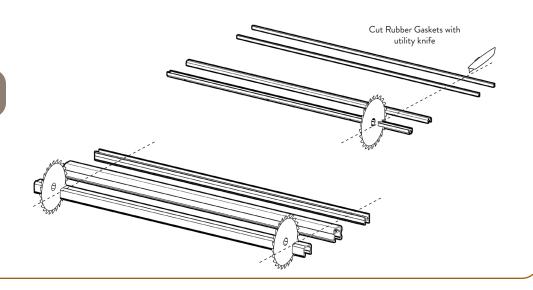


TRIM RAILS, EXTRUSIONS, AND GASKETS

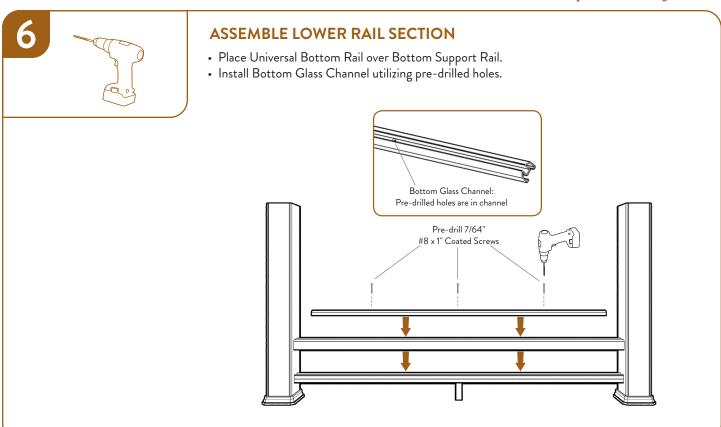
- Measure distance between the posts at the Bottom Support Rail.
- Transfer measurement to Top & Universal Bottom Rails, Top Support Rail and cut to length.
- Measure and cut Top and Bottom Glass Channels, and Rubber Gaskets to appropriate lengths.



Glass Channels must be at least 4" shorter than rail.









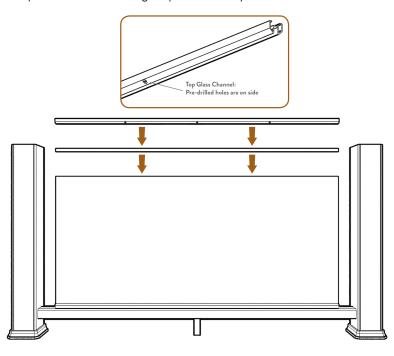




8

INSTALL TOP GASKET AND TOP GLASS CHANNEL

- Place Rubber Gasket on top of glass panel.
- Fit Top Glass Channel onto glass panel assembly.

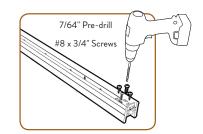


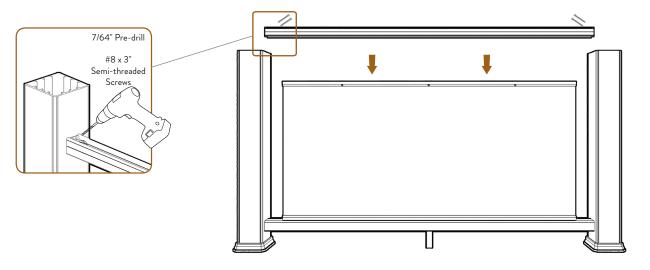
9



INSTALL TOP SUPPORT RAIL

- · Align top Support Rail to center of Posts.
- Attach Brackets to Top Support Rail.





FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL

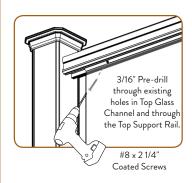






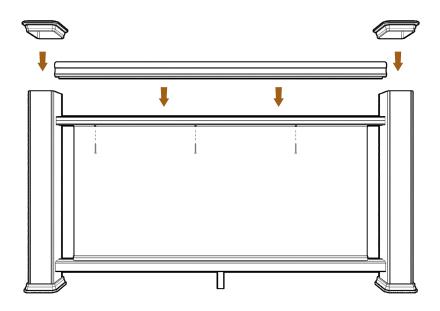
INSTALL TOP RAIL AND POST CAPS

- Attach Post Caps using exterior grade caulk applied to the underside of the Cap.
- Attach Top Rail using 2 1/4" coated screws driving screws up through Top Glass Channel into Top Rail.





Caution: Screws must be 2 1/4" to attach the Top Rail on the Straight Rail sections.







FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL



Consult your local building codes for guard and handrail requirements.



IMPORTANT NOTES:

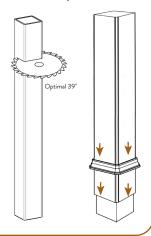
Be sure to cut Post Sleeves such that finished rail height is at least 36" high for a 36" rail application and 42" high for a 42" application.

For all rail installations, post and post covers must be plumb and aligned with 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 as neeed to plumb.

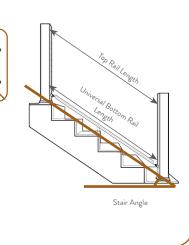




Support Rails are rotated 90° for stair rail applications.

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.



3

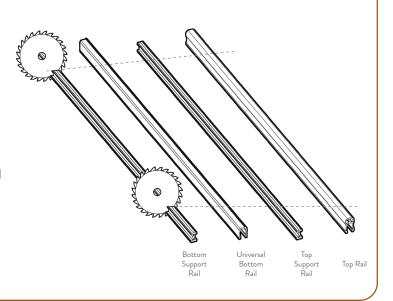




This entire section of instructions is for installation of Classic Composite Series and Reserve Rail systems. Installation of the RESERVE RAIL system is identical to the Classic Composite Series, except it uses the RESERVE BOTTOM RAIL instead of the Universal Bottom Rail.

TRIM RAILS

- First trim both Top and Bottom Support Rails to dimensions from Step 2. TEST FIT for accuracy.
- Transfer measurement from Bottom and Top Support Rails to Bottom and Top Rails.
- Trim all Rails to measured lengths at appropriate angle.



FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL





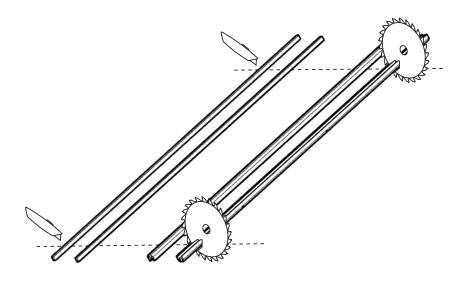


TRIM GLASS CHANNELS AND GASKETS

• Using lengths in Step 3 as a reference, measure and cut Top and Bottom Glass Channels, as well as both Rubber Gaskets at appropriate angle.



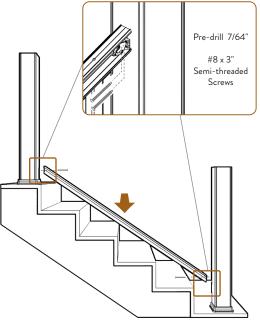
Glass Channels must be at least 4" shorter than rail.







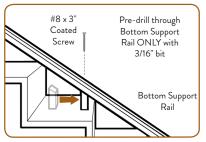
INSTALL BOTTOM SUPPORT RAIL



Attach Mounting Brackets
 to Top AND Bottom
 Support Rails.

Pre-drill 7/64" #8 x 3/4" Screws aligned with rail centerline

 Position Bottom Support Rail on the center of the posts and secure Mounting Brackets to posts.



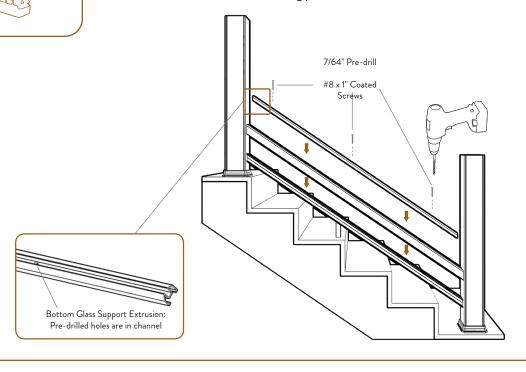
 Trim Foot Block and wedge under Support Rail & Attach.



FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL

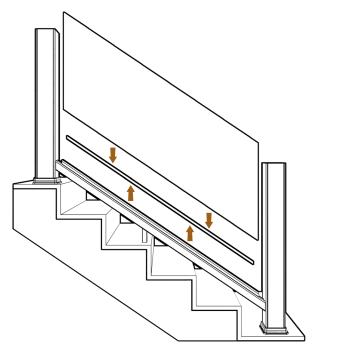
ASSEMBLE LOWER RAIL SECTION

- Place Universal Bottom Rail over Bottom Support Rail.
- Install Bottom Glass Channel utilizing pre-drilled holes.



ATTACH LOWER GASKET AND INSTALL GLASS PANEL

- Apply Rubber Gasket to bottom of Glass Panel first.
- Set panel/gasket assembly into Bottom Glass Channel.



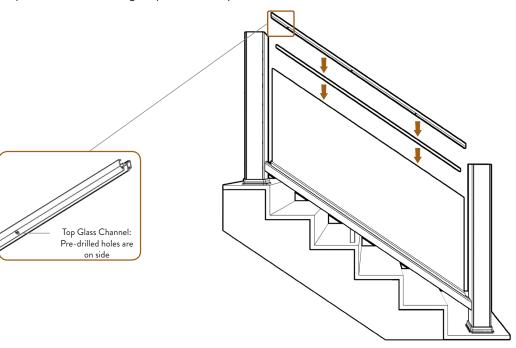
FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL





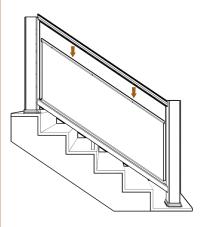
INSTALL TOP GASKET AND TOP GLASS CHANNEL

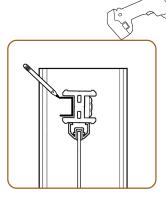
- Place Rubber Gasket on top of glass panel.
- Fit Top Glass Channel onto glass panel assembly.

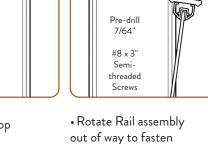




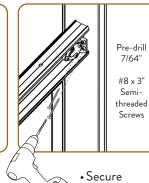
INSTALL TOP SUPPORT RAIL







Support Block



Secure
 Mounting
 Brackets to
 Posts.



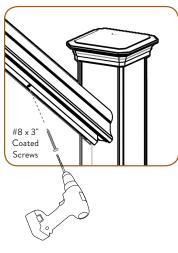
FOR CLASSIC COMPOSITE SERIES AND RESERVE RAIL

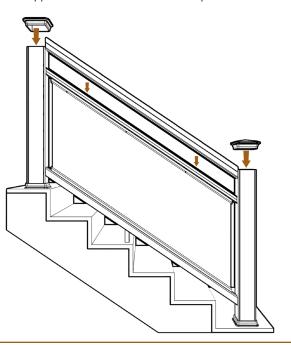
10

INSTALL TOP RAIL AND POST CAPS

- Attach Top Rail using 3" coated screws driving screws up through Top Glass Channel into Top Rail
- Attach Post caps using exterior grade caulk applied to the underside of the cap.





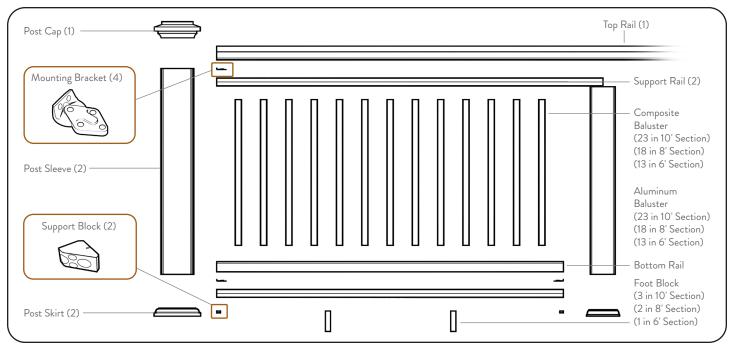




Screws must be 3" to attach the Top Rail on stair sections.

RESERVE RAIL SERIES RAILING





IMPORTANT NOTES:

- TimberTech Reserve Rail Packs are available in 6', 8', and 10' lengths.
- TimberTech Reserve Top Rail is available in 6', 8', 10', 12', and 16' lengths.
- · Visit https://www.timbertech.com/installation-help to view TimberTech installation videos.
- · Consult your local building codes for guard and handrail requirements.
- Measurements are from center to center of post. Rails are produced in 6', 8', and 10' lengths to allow for finished end cuts and angles.
- Determine how many 6', 8', and 10' TimberTech rail sections you need and check to be sure you have all the components (and quantities) listed in the chart shown to the right.
- TimberTech Rails 6', 8', and 10' rails are designed not to exceed 6', 8', and 10' center of post to center of post, respectively.
- TimberTech Reserve Rail can be installed Over the Post on level applications only.
- 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.



COMPONENTS NEEDED FOR INSTALLING



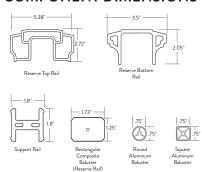
TOOLS REQUIRED

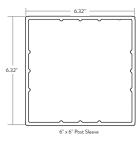
• Miter Saw

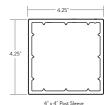
Drill

- 7/64" Drill Bit
- 3/16" Drill Bit
- Measuring Tape Caulk Gun

COMPONENT DIMENSIONS







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.

ONE TIMBERTECH RESERVE RAIL OVER-THE-POST SECTION ٥ 1 - Top Rail (6', 8', 10', 12', and 16' lengths) Reserve T 1 - Bottom Rail 2 - Support Rails (1 - Aluminum Top Support Rail for 10') Rai Hardware Mounting Kit Support Block Mounting Templates Reserve Foot Blocks - 1 in 6' Packs, - 2 in 8' Packs, - 3 in 10' Packs Components available Composite Balusters Aluminum Balusters separately for - 18 Balusters per Pack (23 required per 10' section) - 20 Balusters per Pack (25 required per 10' section) mix-and-match (18 required per 8' section) (20 required per 8' section) (13 required per 6' section) - 29" for 36" Railing (15 required per 6' section) - 29" for 36" Railing systems 31" for 36" Railing 31" for 36" Railing (with less than 2" gap between (with less than 2" gap between deck & Bottom Rail) deck & Bottom Rail) - 35" for 42" Railing - 35" for 42" Railing - 37" for 42" Railing 37" for 42" Railing (with less than 2" gap between (with less than 2" gap between deck & Bottom Rail) deck & Bottom Rail) Baluster Screw Kit Baluster Screw Kit 18 - #8x2" Screws 20 - #8x2" Screws 18 - #8x3" Screws 20 - #8x3" Screws 4 - Mounting Brackets 2 - Support Blocks Hardware included in 16 - #8 x 3/4" Screws 6 - #8 x 1 5/8" Screws Hardware Mounting 6 - #8 x 2 5/8" Screws (Stairs Only) Kits 6 - #8 x 3" Screws 12 - #8 x 3" Semi-threaded Screws T20 Driver Bit 4" Post Sleeves Additional Components 6" Post Caps (Only required for 6" Post Sleeves in the Reserve Over-the-Post Application)

6" Post Sleeves

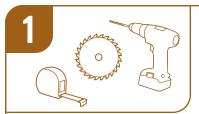
6" Post Skirts

Needed for Each

System

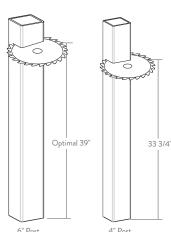
RESERVE RAIL SERIES RAILING

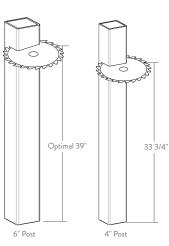


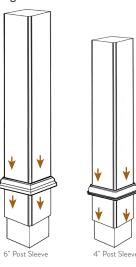


INSTALL POST SLEEVES

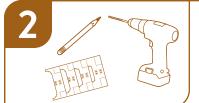
- Slide Post Sleeve and Post Skirt over post (do not force).
- Ensure posts are square and plumb. Shim as needed to plumb.
- Cut 6" Post Sleeve and corresponding 6"x6" Post to desired height.
- Cut 4" Post Sleeve and corresponding 4"x4" post to 33 3/4" (test fit railing to ensure height is exact).
- Center of 6" Post Sleeve and 4" Post Sleeve must be aligned when installed. This will require additional blocking for the 4"x4" post (5/4 blocking in most cases).





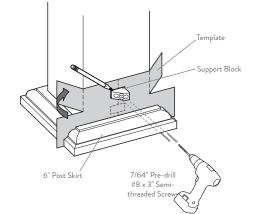


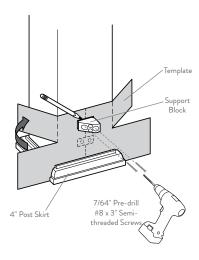
39" above deck surface is optimal for 36" railing heights.



INSTALL LOWER SUPPORT BLOCK

- Position the 6"x6" template at the bottom of the 6" Post Sleeve, above the Post Skirt.
- Position the 4"x4" template at the bottom of the 4" Post Sleeve above the Post Skirt.







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







3



CUT AND ASSEMBLE BOTTOM SUPPORT RAIL

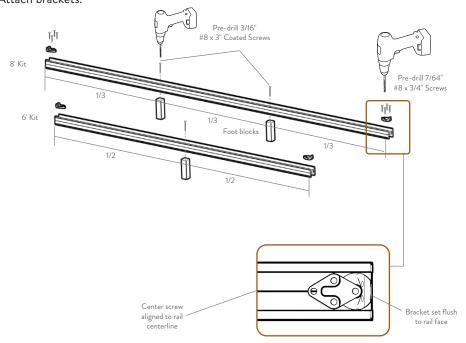
- Cut the Bottom Support Rail to length.
- · Add support blocks as required.
- · Attach brackets.

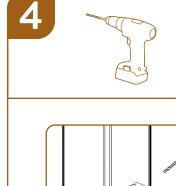


For sections up to 6': Place one Foot Block in the center of the rail.

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

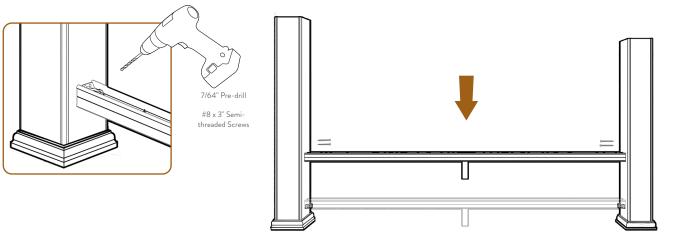
For sections 8' to 10': Space three Foot Blocks approximately at 1/4 intervals on the rail.





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.



RESERVE RAIL SERIES RAILING



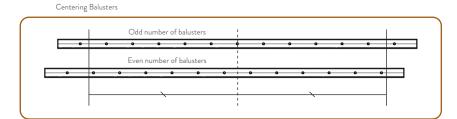


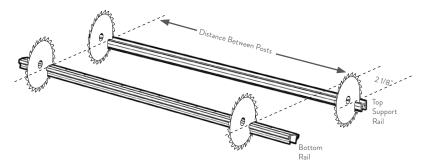


SPACE BALUSTER AND TRIM RAILS

- Measure distance between the posts at the Bottom Support Rail.
- Transfer measurement to Bottom Rail and center either on a pre-drilled hole or between two pre-drilled holes.
- Cut Bottom Rail to length.
- Align holes and cut the Top Support Rail to be 2 1/8" longer than the Bottom Rail.

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







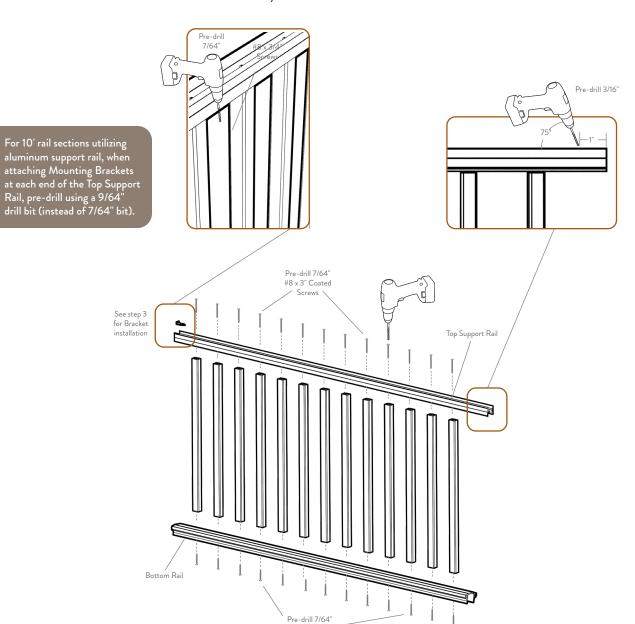




For 10' rail sections utilizing

ASSEMBLE BALUSTER SECTION

- · Attach a Mounting Bracket to one side of the Top Support Rail (outlined in Step 3), this will be attached to the 6" Post.
- On the side that will run over the 4" Post Sleeve, pre-drill the Top Support Rail with two holes using a 3/16" drill bit at a 10-15 degree angle. These holes should be separated by about 1/2" and should start 1" away from the end of the rail.



#8 x 2" Coated Screws

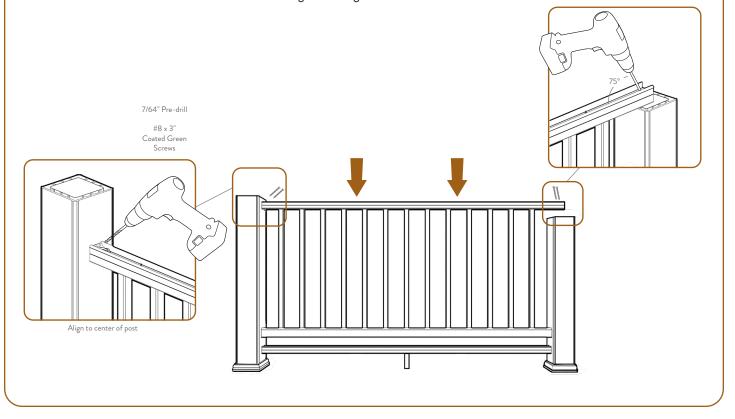
RESERVE RAIL SERIES RAILING





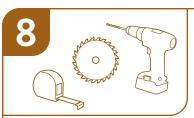
INSTALL RAIL ASSEMBLY

- Align Top Support Rail to center of Posts.
- Use the 3" Green Screws, provided in the Universal Hardware Kit to fasten the Top Support Rail to the 4"x4" post.
- The top of the 4"x4" post, 4" Post Sleeve, and the bottom of the Support Rail should line up to the same height. Test fit railing prior to making final cuts on 4"x4" post and 4" Post Sleeve to ensure these heights are aligned.



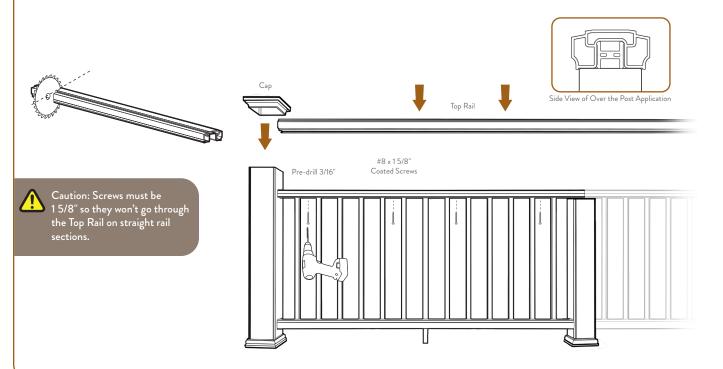






INSTALL TOP RAIL AND POST CAP

- Measure and cut the Top Rail to length. Trim both ends for a clean cut.
- Attach Post Cap using exterior grade caulk applied to the underside of the Cap.



NOTES	TimberTech





AZEK Building Products 1330 W Fulton Market, Suite #350 Chicago, IL 60607

©2020 AZEK Building Products. All Rights Reserved.

TimberTech.com