RadianceRail® Installation Guide





Installing RadianceRail® with Glass Infill	2
Installing RadianceRail® Stairs with Glass Infill	9
Notes	4

TimberTech Code Listings

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

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

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



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

Installing RadianceRail® with Glass Infill



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

RadianceRail® Custom Rail Packs are available in 6' lengths.

Measuring Your Railing Area

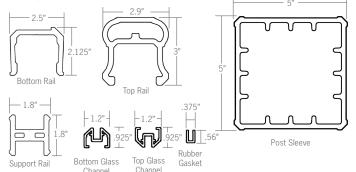
- Measurements are from center to center of the posts. Rails are produced in 6' lengths to allow for finished end cuts and angles.
- Determine how many 6' RadianceRail sections you need and check to be sure you have all the components (and quantities) listed in the chart shown to the right.

Important Information



- Radiance Rail 6' rails are designed not to exceed 6' center of post to center of post.
- Cut slowly, using a fine tooth saw blade to avoid chipping.
- For 42" railing use 12' Post Sleeves.

Component Dimensions



Tools Required

- Miter Saw
- Drill
- Measuring Tape
- 7/64" Drill Bit
- 3/16" Drill Bit
- Utility Knife

Components Needed For Installing One RadianceRail® Section

Components available separately for mix-and-match rail systems

- 1 Top Rail 1 - Bottom Rail
- 2 Support Rails
- Hardware Mounting Kit
- Support Block Mounting Templates
- 1 Foot Block

RadianceRail Custom Rail Pack

Hardware Mounting Kit Hardware included in Hardware Kits:

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

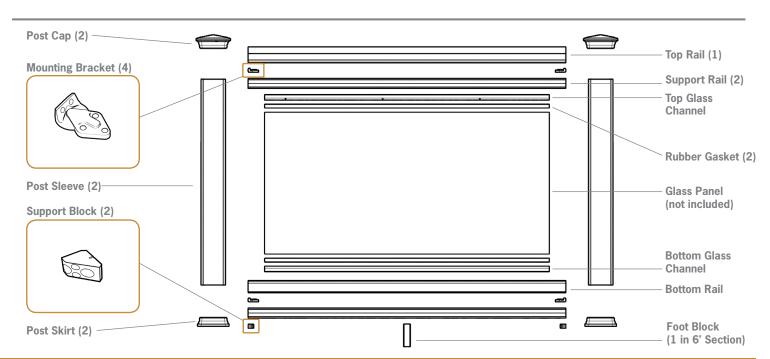
1 - Top Glass Channel Glass Hardware Pack

- 1 Bottom Glass Channel
- 2 Rubber Gaskets
- 6 #8 x 2 1/4" Screws 6 - #8 x 2" Screws
- 3 #8 x 1" Screws

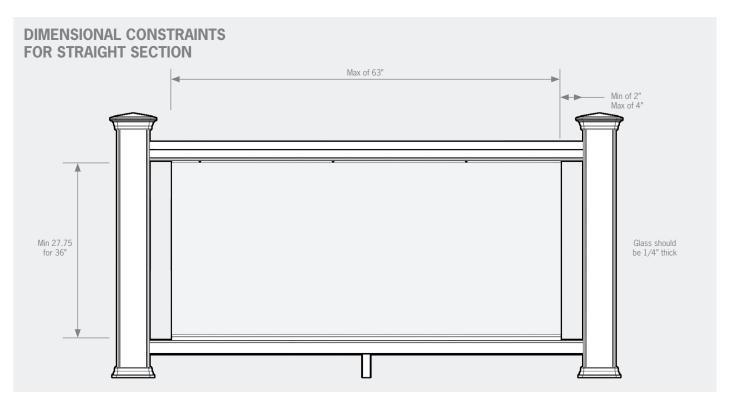
Additional Components Needed for Each System

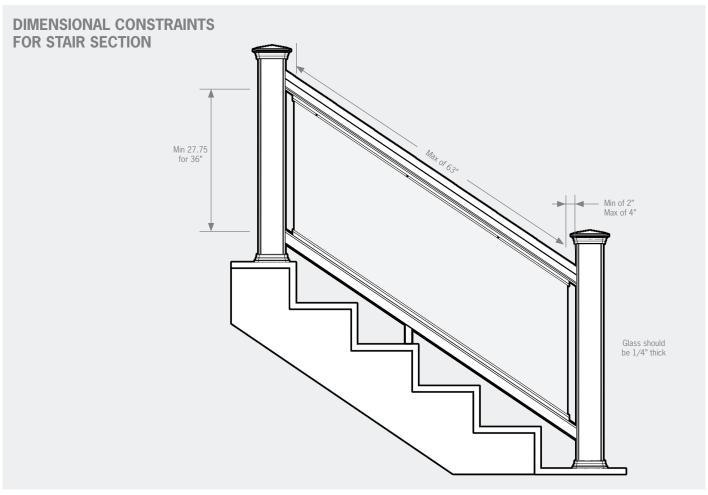
1/4" Tempered Glass must be sourced locally (See attached reference sheet).

- 2 Post Caps
- 2 Post Sleeves
- 2 Post Skirts

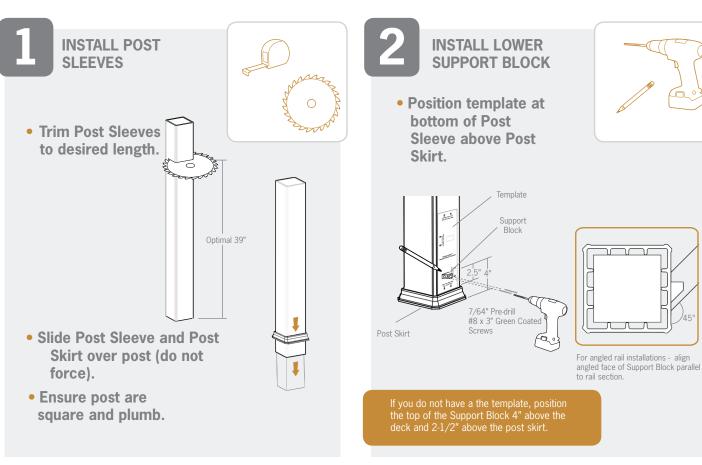






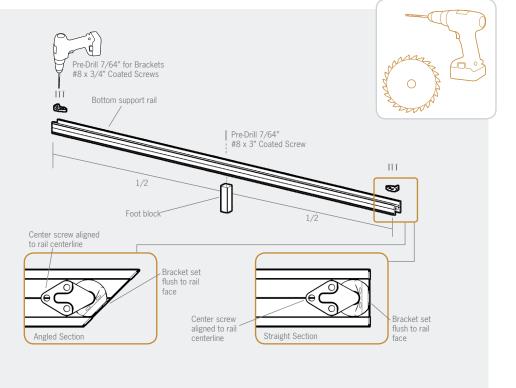






CUT AND ASSEMBLE BOTTOM SUPPORT RAIL

• Cut the Bottom Support Rail to length.



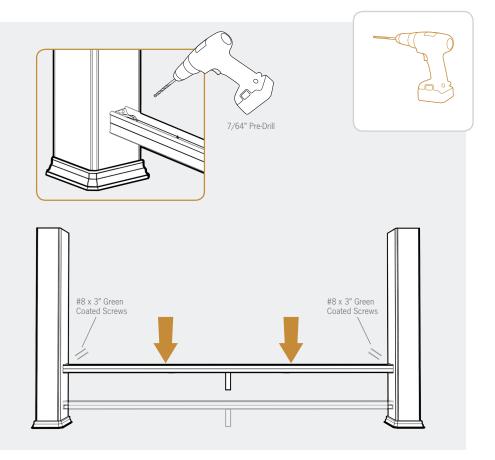


For sections up to 6': Place one Foot Block in the center of the rail





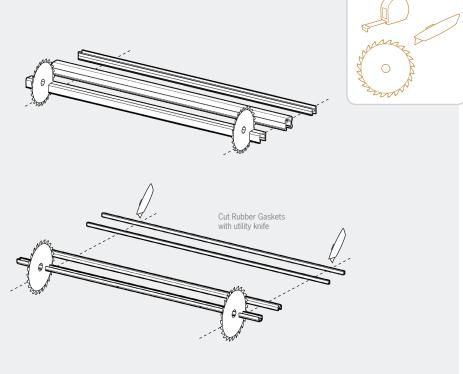
 Position rail assembly onto Support Blocks.



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TRIM RAILS, EXTRUSIONS, AND GASKETS

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





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



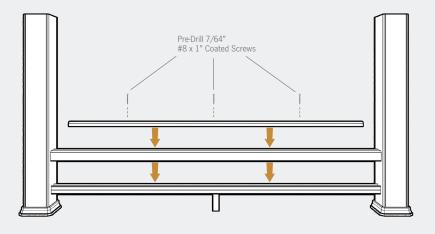
ASSEMBLE LOWER RAIL SECTION

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

Position Bottom Rail with lip facing outside of deck, over bottom Support Rail.

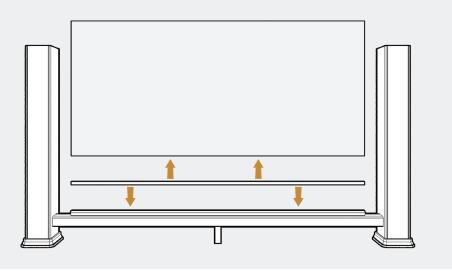






ATTACH LOWER
GASKET AND INSTALL
GLASS PANEL

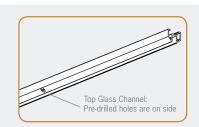
- Apply Rubber Gasket to bottom of Glass Panel first.
- Set panel/gasket assembly into Bottom Glass Channel.





INSTALL TOP GASKET AND TOP GLASS CHANNEL

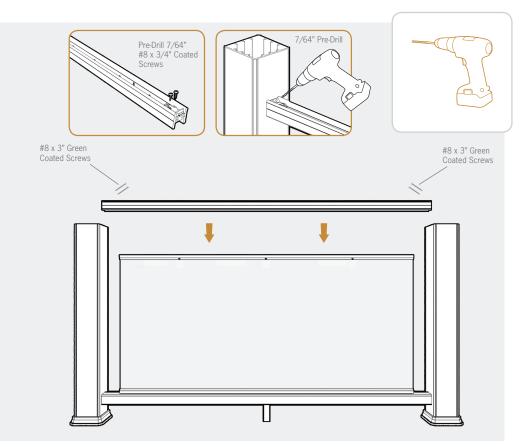
- Place Rubber Gasket on top of glass panel.
- Fit Top Glass Channel onto glass panel assembly.



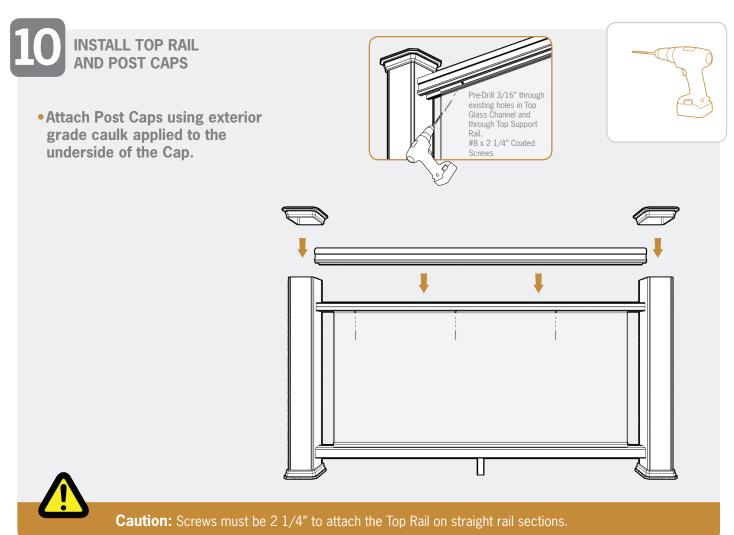




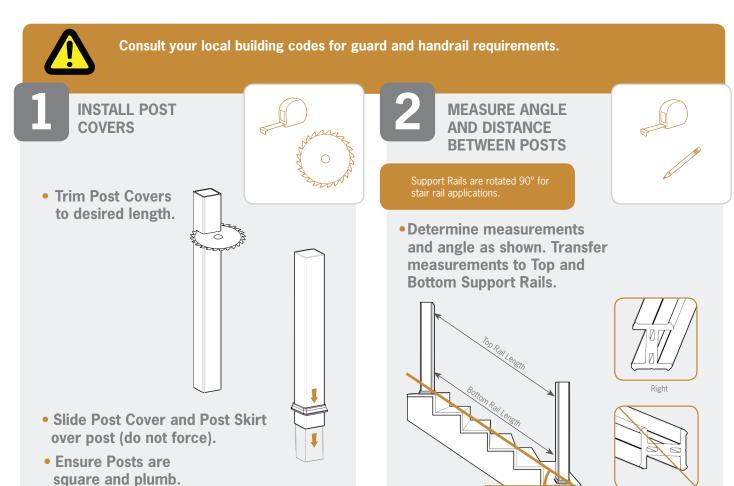
- Align top Support Rail to center of Posts.
- Attach Brackets to Top Rail Support

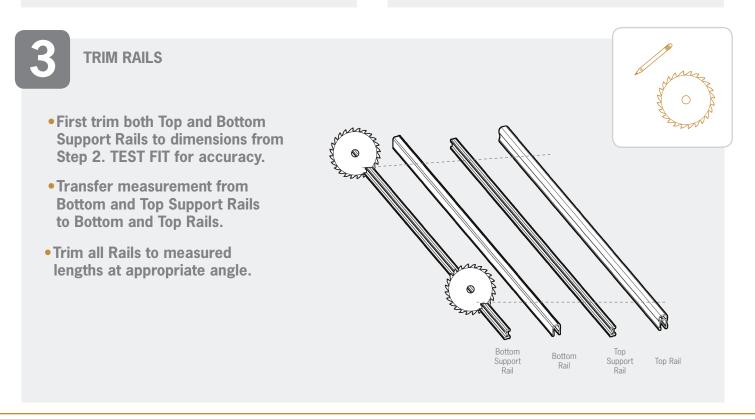








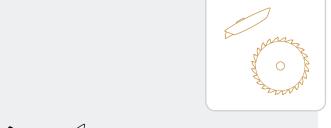


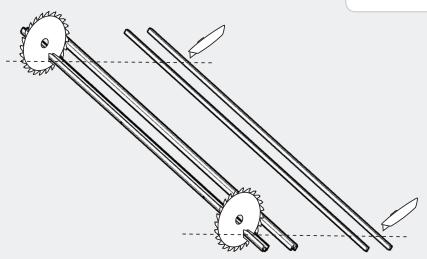






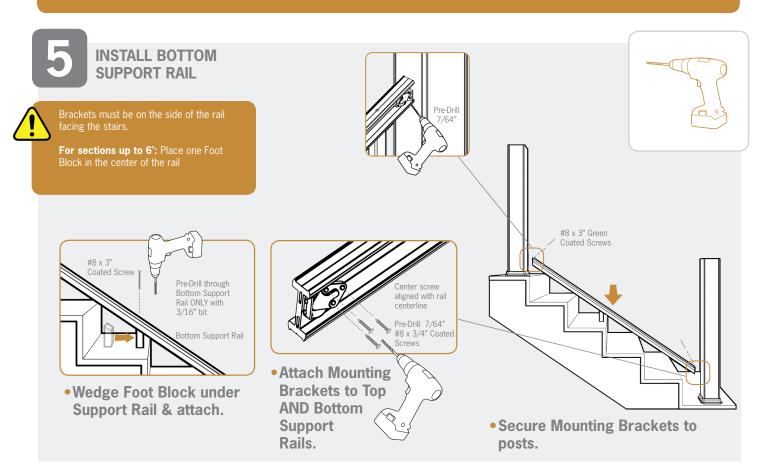
Using lengths in Step 3
 as a reference, measure
 and cut Top and Bottom
 Glass Channels, as well
 as both Rubber Gaskets
 at appropriate angle.



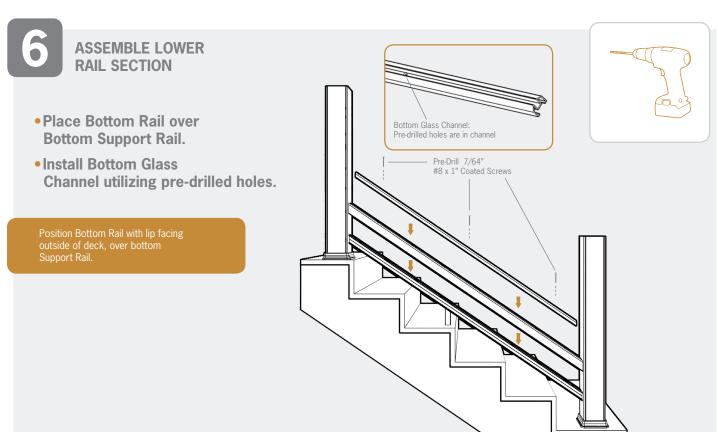


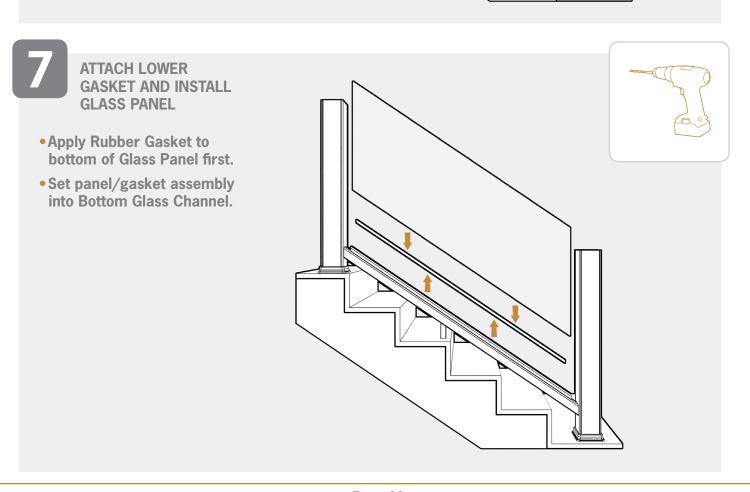


Glass Channels must be at least 4" shorter than rail.





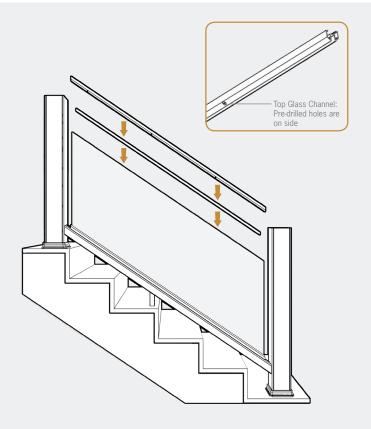


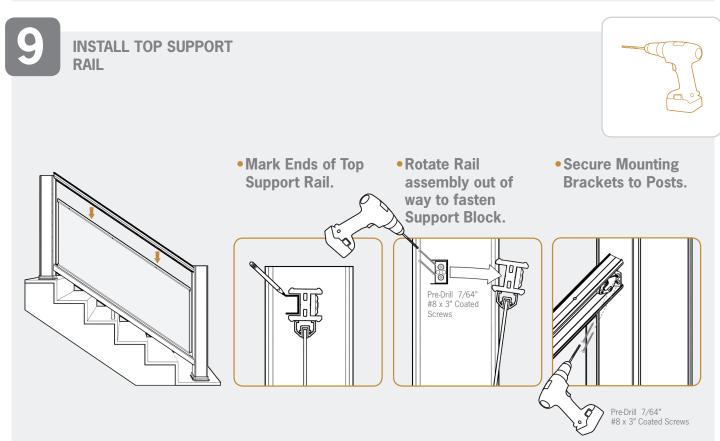




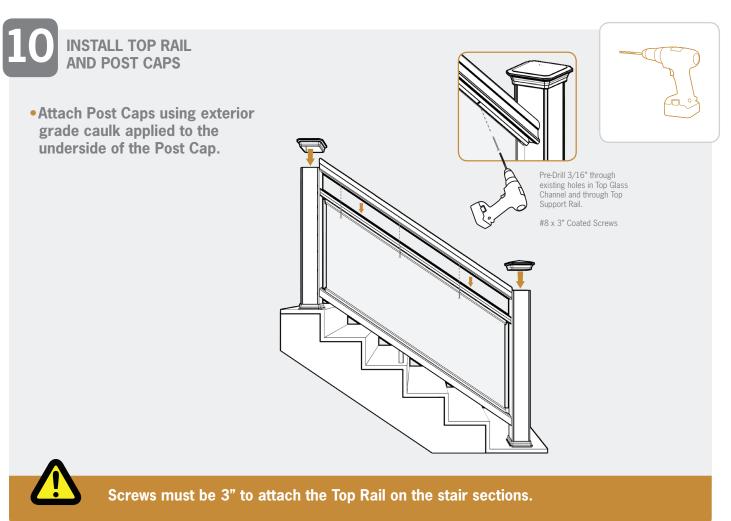
INSTALL TOP GASKET AND TOP GLASS CHANNEL

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









Notes	Timberlech Less Work. More Life.

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