RadianceRail[®] Installation Guide





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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.





- 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.

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

RadianceRail® is available in 10', 8', and 6' lengths.

Measuring Your Railing Area

- Measurements are from center to center of the posts. Rails are produced in 10', 8', and 6' lengths to allow for finished end cuts and angles.
- Determine how many 10', 8', and 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

- •RadianceRail 10', 8', and 6' Rails are designed not to exceed 10', 8', and 6" center of post to center of post, respectively.
 - •For stair applications maximum rail length must not exceed 91"
 - Cut slowly, using a fine tooth saw blade to avoid chipping.
 - For 42" railing use 12' Post Sleeves.
 - Custom Rail Packs should be used when installing Aluminum Balusters.

Component Dimensions



One RadianceRail [®] Section			
Components Included in Complete 6' and 8' Kits (white only).		1 - Top Rail 1 - Bottom Rail 2 - Support Rails Foot Blocks - 1 in 6' kits - 2 in 8' Kits Square Balusters -13 in 6' Kits -13 in 6' Kits Hardware Mounting Kit Support Block Mounting Ten Baluster Screw Kit	mplates
Hardware included in Hardware Mounting Kits:		Hardware Mounting Kit 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 3 - #8 x 3" Screws 12 - #8 x 3" Green Screws T20 Driver Bit	airs Only)
Components available separately for mix-and-match rail	RadianceRail Pack	1 - Top Rail 1 - Bottom Rail 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	
systems	Baluster Pack	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 (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) - 29" for 36" Railing - 31" 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
Additional Components Needed for Each System		2 - Post Caps 2 - Post Sleeve 2 - Post Skirts	



Components Needed For Installing One RadianceRail[®] Section









Support

Rail

Bottom





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 and Top Support Rail to length.



 Odd number of balusters

 Even number of balusters



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









INSTALL TOP RAIL AND POST CAPS

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



Caution: Screws must be 1 3/4" so they won't go through the Top Rail on straight rail sections.















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INSTALL TOP RAIL AND POST CAPS

- Position Top Rail over Support Rail and attach with screws.
- Secure Post Caps with exterior grade caulk.



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





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