2015 INSTALLATION GUIDE
TREX® DECKING AND RAILING
NEED HELP?

Trex provides a variety of valuable resources to answer your questions or concerns. For additional assistance, check out:

» Trex.com
Here you will find a wealth of useful information on Trex’s extensive product portfolio, installation and care and cleaning instructions and videos, technical help, and FAQs. You’ll also find inspiring photos of deck projects, steps to help you plan and start your project, and tips for selecting the right deck builder. At trex.com, you can request information, register your warranty, and reach out to customer service representatives who can answer even more questions.

» Call 1-800-BUY-TREX (1-800-289-8739) and speak to a technical support representative who can answer your questions.

» Email your question or concern to question@trex.com and we’ll get back to you quickly.

Refer to www.trex.com for up-to-date technical bulletins if information is not within this printed installation guide.

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ON THE COVER

deching: Transcend in Tiki Torch and Vintage Lantern
railing: Trex posts in Classic White and Transcend in Vintage Lantern with round aluminum balusters in Bronze

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
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SAFETY

When working on any construction project, you should wear protective clothing and safety equipment. Wear safety glasses, gloves, a dust mask and long sleeves, particularly when cutting in confined spaces.

Trex decking and railing are heavier and more flexible than wood. **DO NOT** try to lift the same quantity of Trex boards as you would traditional lumber. Go to [www.trex.com](http://www.trex.com) for Material Safety Data Sheets (MSDS).

TOOLS

You can create intricate shapes, profiles, and patterns with Trex. Most installations require no special tools. For best results, use carbide-tipped blades and router bits.

When using a miter saw, we recommend using the Trex® Blade™. This comes in 3 different sizes and is ideal for cutting all our decking and railing products (these are not recommended for cutting Trex Elevations®). Refer to [www.trex.com](http://www.trex.com) for more information.

Install Trex recommended fasteners with standard power drills.

Screw guns provide a quick and easy way to fasten Trex.

The pneumatic gun by Tiger Claw® is designed to dramatically decrease the time it takes to install a deck. Strong, lightweight, and durable, the gun uses Trex Hideaway® Hidden fasteners. Trex Gun Pail includes 900-count connector clips and TC-SG collated pneumatic screws. Trex routes beautifully to give extremely crisp edges. The groove cutter/router bit is used with the Trex Hideaway fastening system.

**CAUTION**

**DO NOT** rout balusters. Routing will change the surface of Trex products.

*Tiger Claw® is a registered trademark of Tiger Claw, Inc.

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**NOTE:** Construction methods are always improving. Please refer to [www.trex.com](http://www.trex.com) for the most up-to-date installation requirements.
## TREX TRANSCEND® (DECKING AND RAILING)/TREX ENHANCE®/TREX SELECT® (DECKING AND RAILING) CARE AND CLEANING GUIDE

All exterior building materials require cleaning. Generally, soap and water is all that is required to clean Transcend, Enhance, and Select products. For additional information, see below.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>SOLUTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dirt and Debris</td>
<td>The affected area should be sprayed off with a hose to remove surface debris. Use warm soapy water and a soft bristle brush to remove dirt and debris from the embossing pattern.</td>
</tr>
<tr>
<td>Chalk Lines</td>
<td>High permanence chalk lines may discolor the surface. Use only Irwin Strait-Line® Dust-Off Marking Chalk (purple), available at Irwin.com</td>
</tr>
<tr>
<td>Tannins Due to Debris</td>
<td>Remove all debris from the deck using a hose or broom. Once the deck surface is dry, apply a “deck brightener” to the deck as directed by the manufacturer. Deck brighteners contain oxalic acid, which will remove tannins.</td>
</tr>
<tr>
<td>Ice and Snow</td>
<td>A plastic shovel may be used to remove snow from the deck. Use calcium chloride or rock salt to melt the snow and ice from the deck surface.</td>
</tr>
<tr>
<td>Oil/Grease/Food</td>
<td>All food spills should be removed as soon as possible. The surface must be cleaned within seven days to maintain the stain warranty. To remove, spray off with a hose and use warm, soapy water and a soft bristle brush to remove spills from the embossing pattern.</td>
</tr>
<tr>
<td>Mold and Mildew</td>
<td>If debris such as pollen and dirt is allowed to remain on the deck surface, mold can feed on the biofilm. Using a hose and warm, soapy water with a soft bristle brush is recommended to remove the food source and mold.</td>
</tr>
<tr>
<td>Using a Pressure Washer</td>
<td>A pressure washer with no greater than 3000 psi that has a fan attachment/adjustment and soap dispenser may be used to remove dirt, concrete dust, or other types of construction dirt. Spray deck with soap, and then follow by gently scrubbing each deck board with a soft bristle brush. Spray/rinse each individual deck board using fan tip no closer than 8&quot; (203 mm) from the decking surface. RINSE THOROUGHLY. If dirty water from cleaning is left to dry, this will cause a film to remain on the decking surface.</td>
</tr>
<tr>
<td>Rust</td>
<td>Apply a “deck brightener” to the deck as directed by the manufacturer. Deck brighteners contain oxalic acid, and will remove the rust stains.</td>
</tr>
<tr>
<td>Maintaining Transcend® or Select® railing</td>
<td>NEVER use acetone or other solvents on Trex Transcend or Select railing. For color transfer issues (from attachment of baluster spacer), use Mr. Clean®, Magic Eraser® Original or Magic Eraser® Extra Power to help remove this. For small surface scratches, marks, or scuffs, use Dupli-Color Scratch Seal® Clear Sealer Pen.</td>
</tr>
</tbody>
</table>

*Strait-Line® is a registered trademark of Irwin Industrial Tool Company.

**Use of products containing bleach or acid may lighten the underside or cut areas of the Trex Transcend/Enhance/Select decking.

*** Mr. Clean® and Magic Eraser® are registered trademarks of The Procter and Gamble Company.

****Scratch Seal® is a registered trademark of The Sherwin-Williams Company.

*****Use of a pressure washer greater than 3000 psi could damage the boards and void the warranty.

### NOTES:

- Refer to [www.trex.com](http://www.trex.com) to view a general care and cleaning video for Transcend, Enhance, and Select decking.
- Refer to [www.trex.com](http://www.trex.com) for a care and cleaning guide for Trex Early Generation Composite and PVC Decking.
TREX REVEAL® RAILING CARE AND CLEANING GUIDE

Maintaining the appearance of your Trex Reveal railing is important. The occasional wash is recommended as over time your Reveal railing may show signs of weathering as a result of exposure to the elements. The frequency of cleaning will depend on the environment and exposure to various types of elements.

For installations where the atmosphere is influenced by bodies of salt water or other contaminant conditions, cleaning is required every 6 to 9 months. Failure to adhere to the required cleaning guidelines will void the Trex Limited Warranty with respect to any condition resulting from such failure. For purposes of any warranty claim, you should retain documentation of the cleaning date, cleaning method used, brand and amount of chemical used, and invoice from cleaning company (or a receipt for chemicals used).

Regular cleaning may minimize the effects of weathering and remove dirt, grime and other build-up. The best method of maintaining the appearance of your Reveal railing is to occasionally wash it using a solution of warm water and a non-abrasive, pH neutral detergent solution. The railing surface should be thoroughly rinsed after cleaning to remove all residues. Use a soft white cloth, sponge or a soft bristle brush.

**DO NOT** clean Trex Reveal railing with solvents such as thinners or solutions containing chlorinated hydrocarbons, esters or ketones.

The following cleaners are recommended for cleaning Trex Reveal railing:
» Formula 409® Cleaner Degreaser/Disinfectant*
» Spray Nine® Cleaner/Disinfectant**
» Simple Green® All Purpose Cleaner***
» Fantastik® All Purpose Cleaner****
» Windex® Cleaner******

* Formula 409® Cleaner Degreaser/Disinfectant is a trademark of Clorox Company.
** Spray Nine® All Purpose Cleaner/Disinfectant is a trademark of Illinois Tool Works Inc.
*** Simple Green® All Purpose Cleaner is a trademark of Sunshine Makers Inc.
**** Fantastik® All Purpose Cleaner is a trademark of SC Johnson & Son Inc.
****** Windex® is a trademark of SC Johnson & Son Inc.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
GLOSSARY OF TERMS

PVC  
High Performance Composite  
Trex Escapes®, Trex Transcend®, Trex Enhance®, Trex Select®

Baluster  
A piece that snaps into top and bottom rail that gives precise spacing to the balusters.
Baluster Spacer  
A 45° corner cut gasket to be used when attaching railing to the corner of a 4x4 post sleeve.
Bird’s Mouth Gasket  
Part of the connector clip and allows for 1/4” (6 mm) spacing between decking boards.
Bump Stop Tab  
A bolt with a rounded head and a square shoulder under the head to prevent turning during installation.
Carriage Bolt  
Hidden fastener used between deck boards to secure positioning.
Connector Clip  
Horizontal trim board used to cover rim and end joists. May also be used for stair risers.
Fascia  
Provides support for the bottom rail and gives a finished appearance.
Foot Block  
A horizontal structural pressure-treated board that runs from wall-to-wall, wall-to-beam, or beam-to-beam to support the deck floor and decking materials.
Joist  
A large metal fastener with a hex head and screw threads that drive it into the wood.
Lag Bolt  
A beam supporting one end of the joists.
Ledger Board  
The rounded front edge of a stair tread.
Nosing  
Self-tapping screw with W-cut design and slightly rounded head.
Pan-head Screw  
A horizontal trellis or framework, supported on round or square posts, that can carry climbing plants and provides limited cover from sunshine. It may form a covered walk.
Pergola  
Formed sleeve that fits over a standard pressure-treated 4x4 post.
Post Sleeve  
Attractive flat or pyramid shaped cap to place on top of post sleeve.
Post Sleeve Cap  
Decorative skirt that surrounds the bottom of the post and rests on surface of deck.
Post Sleeve Skirt  
A gasket used to fill the gap between the railing and post.
Rail Gasket  
Light that attaches to side of post sleeve.
Rail Light  
Innovative bracket designed for horizontal, angled, and stair railing installations.
Rail Support Bracket (RSB)  
Light that is recessed so it sets flush with decking surface.
Recessed Light  
A joist on either side or the end of the deck. May have stairs attached and typically opposite of the ledger board.
Rim Joist  
The vertical board nailed to a stringer.
Riser  
Light that attaches to stair riser.
Riser Light  
A joint used to join two pieces of decking end-to-end, usually cut at a 45° angle.
Scarfl Cut  
A small plug to cover a screw.
Screw Plug  
A fastener that taps and drills its own hole and does not require a pre-drilled hole.
Self-tapping Screw  
A wedge that is placed between two surfaces to fill in the gap.
Shim  
Steps or stairway boards that are the steps.
Stair Tread  
Metal clips used at the end of decking boards to secure them in position.
Start Clip  
The structural member in a stairway that supports the treads and risers.
Stringer  
A safety glass that is four to five times stronger than standard glass made by a process of extreme heating and cooling.
Tempered Glass  
Plastic 1/4” (6 mm) self-gapping hidden fastener that has increased durability and allows for easier and faster installation than traditional fasteners.
Universal Fastener  
A self-adhesive strip applied to the glass panel option to create a tight fit with top and bottom rails.
Weather Stripping
PLANNING AHEAD
PLANNING AHEAD

Trex® Decking:
» When installing any style of Trex decking, especially that of Trex Transcend tropical colors, it is a good idea to mix and match all of the boards on the job site prior to installation to ensure an appealing mix of light and dark tones.
» DO NOT combine Trex Select decking with other Trex decking products. Trex Select is a thinner product than that of other Trex decking.

Railing (Including ADA Handrail):
» First, pick the railing style you want.
» Calculate your spanning based on the railing you chose.
» Determine the number of balusters you will need based on the railing you choose. See pages 38, 54, 81, and 89.

NOTE: Trex Transcend and Select railings are made to be installed at maximum of 6’ (1.82 m) or 8’ (2.44 m) on center (depending upon type of railing you choose). Trex railings are not true 6’ (72”) or 8’ (96”) in length. Trex Reveal railings are made to be installed at maximum 6’ or 8’ CLEAR SPAN BETWEEN POSTS.

» Determine post locations prior to installing any decking. In most cases, posts are usually installed before decking is installed.
» Confirm with your local building official if ADA Handrail is required, and if so plan spanning for posts accordingly to allow for attachment of Trex ADA Handrail. ADA Handrail requires a span of 6’ OC for posts.
» Grill placement: A good recommendation to help prevent damage to your railing is to not have a grill too close to your railing. Allow for ample airspace between the back/sides of your grill to help prevent charring or staining to the railing.

See pages 38-53 for Transcend railing installation, pages 54-80 for Reveal railing installation, pages 81-88 for Select railing installation, and pages 89-92 for ADA Handrail installation.

Trex Lighting:
» Plan locations of lights, power supply, timer, and dimmer. These should be accessible for service if necessary.
» Install wiring before decking and railing have been installed.
» DO NOT run wires between joists and deck boards.

See pages 12-19 for Trex Outdoor Lighting™ installation.

Trex RainEscape® Deck Drainage System:
» Plan ahead for deck layout to allow for proper placement of Trex RainEscape within the joist system.
» Make sure joists are straight and square.

See www.trex.com for more information on Trex RainEscape recommendations and installation. Trex RainEscape is manufactured and distributed by Dri-Deck Enterprises, LLC, under a trademark license with Trex Company, Inc.

Installing Hot Tubs, Planters, and Seating:
» Plan ahead proper joist spanning if required (this is especially important if installing a hot tub).
» Refer to page 25 for Trex Decking Span Chart for specific loads.

Call 1-800-BUY-TREX for detailed questions.

Installing Fireplaces and/or Fire Pits With Trex Decking:

» Determine if fire will be gas or wood burning (NOTE: Most fire pits shown in Trex images are gas burning).
» For gas, the fire pit is installed by cutting around the Trex decking. It is not to be installed on top of Trex decking. A fire resistant material is installed under the fire pit and a protective “wall” made from stone or other fire resistant material is installed to hold fire pit in place and also protect the decking from heat.
» For wood, fire pits are not recommended on top of Trex decking unless using a product called DeckProtect®. Wood burning fire pits can damage the decking due to extreme heat from the bottom of the fire pit and/or burning embers “shooting” onto the decking. DeckProtect® was tested on all Trex decking and there were no issues with burning of the decking surface when placed directly under a standard size portable fire pit along with the accompanying rack (NOTE: Rack is not available for all sizes, so check with manufacturer first for verification). Trex does recommend that the DeckProtect® padding/rack
be moved from time to time for general cleaning underneath. It should be noted that even when using DeckProtect®, burning embers could “shoot” beyond the protective mat and burn the deck.

For more information about this product, please visit their website at www.deckprotect.net or call 1-800-BUY-TREX. DeckProtect® is a registered trademark of Infinite Heat Solutions.

Installing a Pergola on Trex Decking:

» Keep in mind if you are planning to install a Trex® Pergola™ on your deck, you will need access to the underside of the deck. Trex Pergola mounts with a 10” x 10” (254 mm x 254 mm) aluminum plate on the underside of the deck, creating a clamping effect on both the top and bottom of the deck for maximum strength. If installed, water barriers and any underdeck coverings will have to be removed to properly install the pergola posts.

» You need to consider the location of your pergola posts in respect to joists. However, you do not have to mount your plates between joists. It is possible to place blocks on the bottom of the joists and mount the Trex Pergola brackets through the blocks.

Installing a Trex Spiral Staircase:

» Refer to www.trexspiralstairs.com for detailed information on how to plan and install Trex® Spiral Stairs™.

Trex Pergola products are manufactured and sold by Home & Leisure, Inc., d/b/a Backyard America under a trademark license with Trex Company, Inc.

NOTE: You can always reference the Design Tools Section on www.trex.com for additional planning aids.

Special Patterns

When planning a unique pattern, you will need to adjust the framing to support the surface pattern. Refer to the span and gapping charts on pages 25-26. Many decks are designed to take advantage of angles, as shown below.

Herringbone Pattern  Tile Pattern  Picture Frame Pattern

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
LIGHTING
HOW TO INSTALL TREX DECKLIGHTING™

PARTS

Pyramid Post Cap Light  Flat Post Cap Light  Deck Rail Light  Riser Light  Recessed Deck Light  Splitter

» 5ft, 10ft, 20ft, 40ft, and 60ft connection/extension wires sold separately (these are male-to-male connection wires).

TOOLS NEEDED

WARNING: DO NOT INSTALL DECKLIGHTING IN CLOSE PROXIMITY TO POOLS OR HOT TUBS AS CHEMICALS FROM THE WATER CAN DAMAGE LIGHTING FIXTURES.

Lighting and Wiring Overview

NOTE: All wiring and splitters are mounted to inside of framing, picture is just representation of where to place these in general.

NOTE: Avoid railing brackets and locations for deck rail lights when running wires up posts.

NOTE: It is recommended to install wiring and splitters before decking and railing have been installed. **DO NOT** run wires between joists and deck boards.

HELPFUL TIPS

» Leave slack in wire to make fixture terminations.
» Recessed lights work well spaced 4’ (1.22 m) to 6’ (1.83 m) on center around perimeter of deck.
» Deck rail lights work well at changes in levels of a deck—at the top or the bottom of the stairs, or in conjunction with post cap lights.
» Riser lights should be placed giving considerations to local codes. If codes do not exist, assess adequate number and placement via darkness evaluation prior to drilling.
» Drill holes perpendicular to the surface, being careful to hold drill steady, to avoid producing an enlarged hole. If hole is enlarged, light fixture will have a loose fit. Use of a flexible outdoor semi-permanent adhesive (silicone caulk) may be required to anchor light in place.
» Riser and deck rail holes can be through holes. However, recessed light holes should be drilled to a depth of 3/4” (19 mm). Over-drilled recessed light holes will require use of silicone caulk to anchor light in place.
» Splitters should be used at each post that has lights and depending on spacing in between each riser and recessed light.
» Cap all unused female connections with caps provided or weather resistant silicone to prevent water damage or corrosion.
» The splitter is cross linked so there is no specified plug for lights versus lead wires.
» Leads attached to each light are approx. 5’ to 6’ (1.5 m to 1.8 m) in length and have male terminals to plug into splitter.
» Use a separate dimmer control for each light type for maximum control.
» It is recommended to have power source attached when installing lights to ensure all components work.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
HOW TO INSTALL TREX DECKLIGHTING™/CONTINUED

General Information
» Refer to www.trex.com for instructional videos on how to install Trex Decklighting
» USE TREX TRANSFORMER ONLY. Use of any other transformer voids warranty.

<table>
<thead>
<tr>
<th>TRANSFORMER CAPACITY BY TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of Light</td>
</tr>
<tr>
<td>Riser</td>
</tr>
<tr>
<td>Recessed</td>
</tr>
<tr>
<td>Post Cap</td>
</tr>
<tr>
<td>Deck Rail</td>
</tr>
</tbody>
</table>

Above listing is for maximum number of each individual types of lights. If mixing and matching lighting, contact Trex to determine if more than one transformer is required.

Planning
NOTE: When designing your deck, plan locations of lights, power supply, timer, and dimmer. These should be accessible for service. Installing a GFCI outlet is REQUIRED to help prevent damage to lighting from electrical surges.

1. The dimmer remote will work in a 30’ (9 m) radius of the unit.
2. Dimmer should be installed in a dry location.
3. Timer must be installed vertically with receptacle facing downwards. Timer must be at least 1’ (.305 m) from ground level when installed as per federal safety code height regulations. Timer must be in view of the sun to use the dusk/dawn feature.

Installing Wiring
NOTE: It is recommended to install wiring and splitters before decking and railing have been installed.
» Use male-to-male connection wire (lengths vary) that will connect to each required splitter:

1. Wiring must be run under decking structure and behind stringers. DO NOT run wires between deck boards and joists. Staple to frame with cable staples at least 1/4” (6 mm) wide. DO NOT crush wire insulation with staple.

2. Wiring can be run under deck and behind risers. Staple to frame with cable staples at least 1/4” (6 mm) wide. DO NOT crush wire insulation with staple.
3. Remove 5’ (1.52 m) lead wire that is connected to post cap and attach wire to post with male connection at top of post (female connection would be at bottom of post and connect into splitter). Avoid running wire on side of post where railing brackets or deck rail lights will be installed. Leave approximately 6” (152 mm) of lead at top to make connections. Staple to frame and posts with cable staples at least 1/4” (6 mm) wide. DO NOT crush wire insulation with staple.

Making Connections
1. Install splitters to inside of framing using hardware provided. Install at every post base where lighting is present and depending on spacing in between each riser and recessed light.

2. Attach male lead from lights to female connections on splitter. Also attach male-to-male connection wires in between each splitter. Continue until all wiring from lights are attached to splitters and connector wires are attached in between splitters.
3. Cap off all unused female connections on splitters using caps provided or weather-resistant silicone.
HOW TO INSTALL TREX DECKLIGHTING™/CONTINUED

Timer Operation Instructions

1. Select the mode of operation:
   » Dusk to Dawn
   » 1 - 8 hours
   » Always “ON”
   » “OFF”
Program repeats daily. When power is flowing to lights, green light above POWER is on.

Installing Post Cap Lights

**NOTE:** Install post cap lights after the railing system, post sleeve skirt, and post sleeve have been installed.

1. Connect male lead from wiring to female connector from cap. Also attach male-to-male connection wires in between each splitter. Continue until all wiring from lights are attached to splitters as well as connector wires are attached in between splitters. (See Making Connections section for details.)
2. After verifying wiring is correct by turning lights on, attach cap to top of post with silicone caulk.

Installing Deck Rail Lights

**NOTE:** Instructions shown below are for new deck installation and are shown BEFORE railing system has been installed.

1. Place post sleeve over pressure-treated post and mark desired height, centered on post sleeve for deck rail light location.

**NOTE:** If deck boards are not installed yet, place a deck board on framing to ensure post sleeve is at correct height.

2. Drill a 1” (25 mm) hole through post sleeve. Drill deep enough to mark location on pressure-treated post.
3. Remove the post sleeve from the post.

4. Drill out existing hole on pressure-treated post 3/4” (19 mm) deep. Drill two additional holes vertically below main hole—this will allow space for wiring after post sleeve is attached.
5. Leave enough slack at top of lead wire and attach lead wire to post using staples. Attach lead wire to splitter under decking.

**TIP:** To hold lead wire in place at drilled out location use painters tape.

Installing Deck Rail Lights

6. Slide post sleeve back over post. If using a post sleeve skirt, make sure to install the skirt first. Connect plug on deck rail light to lead wire and tuck wiring into previously drilled out pockets on post.
7. Align holes for screws horizontally and attach fixture base to post with provided screws.

**NOTE:** Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
8. Line up polycarbonate lens with fixture housing. Twist onto fixture base. Continue until all wiring from lights are attached to splitters as well as connector wires are attached in between splitters. (See Making Connections section for details.)

**NOTE:** If railing has already been installed, lead wires will need to be fished through the post sleeve to reach the desired location for the deck rail light. In some cases if the provided lead wire does not fit (due to connector size), the wire connectors can be cut off and wire nuts can be used. Test lights with the power on. If lights that are wired with this method do not function, then switch the connector wires.

**Installing Riser Lights**

**NOTE:** Install riser lights after stairs and risers have been installed.

1. Mark locations for each light, generally 4" (102 mm) above tread. Consult local codes for lighting requirements.

**NOTE:** If possible, avoid locations over joists as holes will be more difficult to create.

2. Drill a 1” (25 mm) diameter hole at least 1” (25 mm) deep into riser. If riser material is thicker than 1” (25 mm), use a 1/2” (13 mm) drill bit to create a passage for wires.

3. Thread wires through hole. Press light into hole, ensuring lens is horizontal. Make connections behind stairs from male lead wire from recessed light into female connection on splitter. Also attach male-to-male connection wires in between each splitter. Continue until all wiring from lights are attached to splitters and connector wires are attached in between splitters. (See Making Connections section for details.)

**NOTE:** DO NOT install riser light or deck rail light into top or bottom rails or balusters.

**Installing Recessed Deck Lights**

**NOTE:** Install recessed deck lights after installing decking.

1. Mark locations for lights in deck boards.

**NOTE:** If possible, avoid locations over joists as holes will be more difficult to create.

2. Drill a 1” (25 mm) diameter hole 3/4” (19 mm) deep into deck board. Hole cannot go all the way through deckboard or light will fall through. Make sure drill bit is perpendicular to board. Drill a 1/2” (13 mm) diameter hole in base of the first hole through deck board.

3. Thread wires through hole. **DO NOT pull LED into hole by pulling on wires. This may damage wires or LED.** Press light into hole until flush with surface. Make connections under deck from male lead wire from riser light into female connection on splitter. Also attach male-to-male connection wires in between each splitter. Continue until all wiring from lights are attached to splitters and connector wires are attached in between splitters. (See Making Connections section for details.)
HOW TO INSTALL TREX LANDSCAPE LIGHTING™

Parts

- Spotlight
- Stepped Path Light
- Round Path Light
- Wall Wash Light
- Well Light

Helpful Tips

» Location of Trex Landscape Lighting is up to customer as to where they would like lighting components placed. Different length of lead wires can be purchased depending on the distances between lights.

» Leave slack in wire to make fixture terminations. Keep in mind slack will also be required to properly bury wire.

» Trex Landscape wires are approved for underground use. Wire is made from silver-coated copper.

» All landscape lights EXCEPT for Trex Spotlight have female connectors.

» Trex Spotlight will require the use of a female-to-female adaptor to connect light to male connector wire (this adaptor is sold with Trex Spotlight but is also sold separately if needed for other areas).

» All Trex landscape lights use male-to-male connector wires, sold in lengths of 5', 10', 20', 40', and 60' (sold separately).

» All lights EXCEPT the spotlight can be wired together on a circuit. Optional 6-way splitters are available (sold separately) to make installation easier.

» Trex Spotlights require different wiring configurations; refer to detailed instructions on following pages for specifics.

» Only use a standard household AC GFCI protected outlet to help prevent damage from power surges or lightning.

» When using timer, ensure this is in full view of the sun if using the dusk/dawn feature.

» It is recommended to have power source attached when installing lights to ensure all components work.

» When burying wire in live sod, use spade shovel to make a slit in the soil. Bury the wire 1”-3” (25 mm-76 mm) deep and tamp down the soil. Water heavily to allow the soil to resettle and minimize impact on the installation site.

Tools Needed

- 3/4” (19 mm)

Warning: Before any Trex Landscape Lighting is installed, it is the installer’s responsibility to ensure that all underground utilities/lines are located (gas lines, electrical lines, data lines, water lines, etc.) prior to any work being done.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
HOW TO INSTALL TREX LANDSCAPELIGHTING™/CONTINUED
TREX WELL LIGHT, PATH LIGHTS, AND WALL WASH LIGHT

<table>
<thead>
<tr>
<th>TRANSFORMER CAPACITY BY TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of Light</td>
</tr>
<tr>
<td>Well Light</td>
</tr>
<tr>
<td>Path Light</td>
</tr>
<tr>
<td>Wall Wash Light</td>
</tr>
</tbody>
</table>

Above listing is for maximum number of each individual types of lights. If mixing and matching lighting, contact Trex to determine if more than one transformer is required.

1. Locate placement of lights and lead wiring. Plan accordingly if you choose to bury wire under concrete or other permanent structures.

2. Place all lights in desired location. If necessary use 3/4” (19 mm) auger with optional extension in a drill to penetrate the surface enough to ensure the fixture is firmly implanted.

(SEE WARNING ON PREVIOUS PAGE)

3. Run all wires from the power source locations to the lights on top of the soil, being mindful to leave slack. Pay special attention if using separate circuits with independent dimmers (grouping lights by type is recommended).

4. Connect all lights. Wire the optional dimmer (recommended) between the main 20’ (6.1 m) transformer to male lead and the transformer for each circuit. Ensure connections (including splitters), fixtures, and power sources all work properly.

4a. Use male-to-male extension cables to make connections to splitters (all sold separately). Cap off all unused female connections on splitters using caps provided or weather resistant silicone.

5. You can mix and combine all lights except the spotlight on the same circuit but make sure you DO NOT exceed the maximum number of lights per transformer. If running separate circuits with dimmers on each circuit, using a separate transformer for each circuit can simplify installation. However, use of a 5-way splitter will allow for separate circuits on the same transformer.

6. It is recommended the installer preview light placement in the dark to ensure desired effect is achieved.

7. Once the light, wire, and splitter placement is finalized, work from the light fixtures towards the power source to bury the wire to the desired depth. No more than 1”-3” (25 mm-76 mm) is required.
HOW TO INSTALL TREX LANDSCAPELIGHTING™/CONTINUED

TREX SPOTLIGHT

<table>
<thead>
<tr>
<th>TRANSFORMER CAPACITY BY TYPE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type of Light</td>
</tr>
<tr>
<td>Spotlights</td>
</tr>
</tbody>
</table>

Above listing is for maximum number of each individual types of lights. If mixing and matching lighting, contact Trex to determine if more than one transformer is required.

NOTES:

» Each Trex Spotlight requires use of a dedicated 36V Step-up Transformer (included with each Trex Spotlight). WARNING: Step-up Transformer DOES NOT have fault protection, thus care must be taken if testing.

» Spotlights must use a dedicated line running directly from the included 36V step-up transformer. Maximum of seven spotlights are allowed per one 5-amp transformer. (NOTE: Must use two 5-way splitters if installing six or seven spotlights to single 5A transformer as 5-way splitter is designed for up to five spotlights.) Spotlights have a male lead and require the use of a female-to-female adaptor to connect spotlight to connector wire. The spotlight fixture has a male lead. Install the extension cable accordingly. DO NOT mix any other lights on the spotlight circuit. Applying 36V to any other fixture types will result in very short diode life and will void warranty.

» DO NOT LOOK DIRECTLY INTO SPOTLIGHT WHEN ON—THIS LIGHT IS VERY STRONG.

1. Locate placement of spotlights and lead wiring. Plan accordingly if you choose to bury wire under concrete or other permanent structures.

2. Connect male lead from light to female to one end of female adaptor.

3. Connect opposite end of female adaptor to male connector wire. Choose appropriate length wire based on your needs. Run all wire on the surface back to the location of the power supply.

4. Connect opposite end of male connector wire cable to female end on Step-up Transformer. If using more than one spotlight, use 5-way splitter on Step-up Transformer, making sure that each spotlight is utilizing its own 36V Step-up Transformer. Wire the Step-up Transformer or 5-way splitter to the 5A main transformer.
5. If using an optional dimmer (recommended), simply place the dimmer between the 5-way splitter and main transformer.

6. Test lights to ensure power supply, connections, and light fixtures all work properly and placement is appropriate.

7. Ensure that all unused connections on 5-way splitter are covered using weather resistant silicone.

8. Ensure that lights are all working with all wiring attached prior to burying any wire. No more than 1"-3" (25 mm-76 mm) is required.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
# DECKING AND FASCIA RECOMMENDED FASTENERS

<table>
<thead>
<tr>
<th>TREX® PRODUCT LINES</th>
<th>Transcend®</th>
<th>Enhance®</th>
<th>Select®</th>
<th>Accents®</th>
<th>Escapes®</th>
</tr>
</thead>
<tbody>
<tr>
<td>Trex Hideaway® Universal Hidden Fastener</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Trex Hideaway® Connector Clip</td>
<td>X</td>
<td>X</td>
<td></td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>TigerClaw® TC-G Hidden Fastener</td>
<td></td>
<td></td>
<td></td>
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<td>X</td>
</tr>
<tr>
<td>FastenMaster® TrapEase® 3 Ultimate Composite Deck Screw</td>
<td>X</td>
<td>X</td>
<td>X</td>
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<td>X</td>
</tr>
<tr>
<td>Simpson Strong Tie Deck Drive™ DCU Composite Screw (Collated and Handdrive)</td>
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<td>X</td>
<td>X</td>
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<td>X</td>
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<tr>
<td>Quick Drive® Composi-Lok Deck Screw</td>
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</tr>
<tr>
<td>Dexter® Composite Screw – 6 Lobe Drive Only</td>
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<td>X</td>
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<tr>
<td>UFO Ballistic NailScrews®</td>
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<tr>
<td>Fastenmaster® TrimTop Screw</td>
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<td></td>
<td></td>
<td>X</td>
</tr>
<tr>
<td>Scrudini™ Hand Drive Screws</td>
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<td></td>
<td></td>
<td></td>
<td>X</td>
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<tr>
<td>Camo® Marksman Pro®</td>
<td></td>
<td></td>
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<td>X</td>
</tr>
<tr>
<td>DeckFast® Cap-Tor® xd/HeadCote® Cap-Tor® xd</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>DeckFast® Cap-Tor® xd/HeadCote® Cap-Tor® xd Collated (for Muro CH7390® Driver)</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
<td>X</td>
</tr>
<tr>
<td>Screw Products C-Deck Exterior Star Drive Composite Deck Screw</td>
<td>X</td>
<td>X</td>
<td>X</td>
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</tr>
<tr>
<td>Phillips II Plus® Pozidrive</td>
<td>X</td>
<td>X</td>
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<td></td>
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<tr>
<td>Cortex® Concealed Fasteners</td>
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</tr>
<tr>
<td>Muro® T-Screw Tors Stainless Steel Screw - Collated (TX0215FD or M-TX0300SEP)</td>
<td>X</td>
<td>X</td>
<td>X</td>
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</tr>
<tr>
<td>Kameleon™ ORF Fasteners™</td>
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<td></td>
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<td></td>
<td>X</td>
</tr>
<tr>
<td>Starborn® DeckFast® (or HeadCote®) Fascia System</td>
<td>X</td>
<td>X</td>
<td></td>
<td></td>
<td>X</td>
</tr>
</tbody>
</table>

**NOTE:**  
- 2 3/4” (70 mm) or 3” (76 mm) screws can be used with Trex 2x6 product.  
- Muro T-Screw M-TX0300SEP listed above is approved for 2x6 decking (can also be used with standard thickness decking boards as listed above). This screw is collated and can be used with Muro Auto Feed Screw Gun FDVL4L Speed Driver. **(NOTE THIS IS NOT A COLOR MATCH SCREW.)**  
- All decking products are approved for use with Trex Hideaway Hidden Fasteners, thus all decking products can be routed according to our instructions.  
- Fascia system screws listed above can only be used with composite fascia profiles, cannot be used with standard thickness decking boards used as fascia. Use HeadCote Fascia System Stainless Steel screws near water applications.  
- Simpson Strong Tie Deck Drive DCU Composite Screw in collated versions works with Quick Drive gun.

**Trex recommends the use of two screws per joist.**

## MINIMUM FASTENER SIZE

### SCREWS

<table>
<thead>
<tr>
<th>Profile</th>
<th>Length</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1x6</td>
<td>2 3/4” (63.5 mm) or 2 3/4” (70 mm)</td>
<td>#8, #10</td>
</tr>
<tr>
<td>2x6</td>
<td>2 3/4” (70 mm) or 3” (76 mm)</td>
<td>#8, #10</td>
</tr>
</tbody>
</table>

1x6 (25 mm x 152 mm), 2x6 (51 mm x 152 mm)

**NOTE:** Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
TREX® FASCIA INSTALLATION RECOMMENDATIONS
(Does not include Trex Trim Install Recommendations)

Trex Fascia utilized around the perimeter of a deck must be gapped with the same requirements as Trex Decking to allow for air flow and expansion/contraction of the fascia.

The gapping requirements are as follows:

<table>
<thead>
<tr>
<th>WIDTH-TO-WIDTH GAP</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Below 40°F (4.5°C)</td>
<td>3/8” (10 mm)</td>
</tr>
<tr>
<td>Above 40°F (4.5°C)</td>
<td>1/4” (6 mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>END-TO-END/END-TO-WIDTH &amp; ABUTTING GAP</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>End-to-End/End-to-Width</td>
</tr>
<tr>
<td>Above 40°F (4.5°C)</td>
<td>1/8” (3 mm)</td>
</tr>
<tr>
<td>Below 40°F (4.5°C)</td>
<td>3/16” (5 mm)</td>
</tr>
</tbody>
</table>

**NOTE:** This does not apply to standard decking boards when used in fascia applications as this product can only be used with 1/2” (13 mm) to 3/4” (19 mm) standard composite fascia profiles. If you are using a decking board for fascia applications, use three Trex recommended composite decking screws every 12” (305 mm). The top screw should be placed 1” (25 mm) from the top of the rim joist, the second screw in the center of the rim joist, and the third screw 1” (25 mm) from the bottom of the rim joist. In addition, also use a weather-resistant, construction-grade adhesive (adhesives that work with wood will not work with Trex products) as a SECONDARY fastener when attaching fascia. Remember to wipe away any excess before drying or allowing to drip on other Trex surfaces.

**ADDITIONAL TIPS:**
- 10” (254 mm) rim joists allow for an easier and more aesthetically pleasing installation.
- Miter cuts at butt joints and corners allow for a more aesthetically pleasing installation.

Trex recommends the use of Starborn® DeckFast® Fascia System for all composite Trex fascia profiles. For near water applications, you can also use Fascia System HeadCote® stainless steel screws.

If using 2 x 8 framing, use two screws every 18” (457 mm). If using 2 x 10 or greater framing, use three screws every 18” (457 mm). Follow manufacturer instructions for further install instructions and ALWAYS remember to gap fascia properly. A secondary glue is not required when using these fasteners.
FASTENING TIPS FOR TREX ESCAPES**

You can fasten Trex Escapes with the recommended fasteners at least 1/2” (13 mm) and not more than 4” (102 mm) from the board edge without splitting. **You do not have to pre-drill with Trex Escapes.**

*Use Trex Universal Hideaway hidden fasteners for Escapes grooved product. This includes additional screws for installation.

FASTENING TIP FOR TREX ESCAPES, TREX TRANSCEND, TREX ENHANCE®, AND TREX SELECT**

**NOTE:** When using pneumatic or battery-operated equipment, adjust the pressure so that you only shoot the head of the nail to be flush with the board’s cap. **DO NOT** shoot the fastener head completely through the cap.

TREX AND STATIC ELECTRICITY

The buildup of static electricity on a flat surface can affect walking surfaces. This phenomenon can occur in dry climates, where hot dry winds and dust-born particles can create static electricity on the surface of the decking. (This static electricity is the same as when people drag their feet on a dry day or rub a balloon on fur or wool.) In most cases, hosing down the decking surface will dissipate the static charge, however if this continues the deck can be grounded. Consult with an electrician to determine the best methods for this.

TREX PRODUCTS NEAR LOW-E WINDOWS

Low-E glass reflects more sunlight, and it has been observed that the extra reflectivity combined with any concavity in the glass can act like that of a concave mirror, concentrating sunlight onto outdoor objects, including that of decking and railing. This can result in an extreme amount of heat concentrated on areas of the decking surface, which in turn can sometimes char the decking surface or cause the decking to slightly bow.

Composite decking is a great alternative to traditional wood decking. When building your deck and railing, it is recommended that code-approved structural material be used as the framing and joists. One option is using Trex Elevations® steel deck framing. Refer to www.trex.com for more information on Trex Elevations. Check your local building codes for restrictions. Trex decking cannot be used for structural applications. **DO NOT** attach Trex decking directly to any solid surface or watertight system. See Sleeper Systems on page 24. In most cases, install fasteners at a 90° angle (perpendicular to the board).

At board ends on the deck’s edge, you can install screws placed perpendicularly at the recommended distance, at minimum of 1” (25 mm) from the board end edge, without splitting the board.

For butt joints, where boards meet over a single joist, add a 2” x 4” (51 mm x 102 mm) “nailer” board at the butt joint. This allows you to install a screw at a 90° angle.

DOCK APPLICATIONS

Trex decking contains no materials that will harm marine life and is safe for the environment. As long as dock is in intermittent contact with water, i.e., splashing and not in continuous direct contact with water, the durability of the Trex decking should not be affected. For docks, a 3/8” (10 mm) width-to-width gap between boards is recommended to allow for increased drainage due to increased contact with water. In addition, stainless steel fasteners should be used. If there is sufficient contact with the dock and gasoline, grounding of the dock is also recommended.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
ROOFTOP AND SLEEPER DECK SYSTEMS

A sleeper system is a substructure between a solid surface and Trex decking. Drainage, access, and airflow are critical. Water must be able to flow through and away from the deck. For repairs and removal of debris, joist system access may be necessary.

» It is recommended that building code approved structural material be used as the supports.
» Gapping rules are required when installing Trex Decking:

<table>
<thead>
<tr>
<th>TYPE OF GAP</th>
<th>Above 40°F (4.5°C)</th>
<th>Below 40°F (4.5°C)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width-to-Width</td>
<td>1/4” (6 mm)</td>
<td>3/8” (10 mm)</td>
</tr>
<tr>
<td>End-to-End</td>
<td>1/8” (3 mm)</td>
<td>3/16” (5 mm)</td>
</tr>
<tr>
<td>End-to-Width</td>
<td>1/8” (3 mm)</td>
<td>3/16” (5 mm)</td>
</tr>
<tr>
<td>Abutting Solid Objects</td>
<td>1/4” (6 mm)</td>
<td>1/2” (13 mm)</td>
</tr>
</tbody>
</table>

- This system should not be allowed to float; it must be attached in a manner that secures the framing system.
- The sleeper system must be level and have no uneven undulations. Any uneven areas of the substructure will transfer to the Trex decking, resulting in uneven decking.
- Trex, when used with a sleeper system, must be supported below its entire length and if using in a roofing application, the supports must run the direction of the pitch of the roof to facilitate proper drainage. Sleeper should be placed perpendicular to the deck board orientation.

» For Commercial applications it is recommended to consult local building code official for specific requirements.
» If installing decking at angle, decrease spans 4” (100 mm) for each of the above. (12” (305 mm) for residential and 8” (204 mm) for commercial.)
» For sleeper systems where little debris (pine needles, leaves, sand, dirt) can accumulate either between or under deck boards, a minimum of 1-1/2” (38 mm) height is allowable and Trex Universal Hidden Fasteners can be used. (NOTE: Trex recommended composite decking screws are too long when using 1-1/2” (38 mm) height as this will penetrate through the sleeper.) For areas with the potential for debris buildup, a minimum 3-1/2” (89 mm) or greater height is recommended to allow the debris to be removed along with the use of either Trex Universal Hidden fasteners or Trex recommended screws.
» ALWAYS consult your local building code authority for proper details on roof and railing installation to the roof structure if required.
» Any deviation from these recommendations could result in the voiding of the Trex warranty.
CODE COMPLIANCE

Joist Spanning for Decking
Trex decking meets all applicable national model building codes. The joists must be spaced on center according to the chart below. Be sure that joists are level and plumb. Trex decking must span at least three joists. For heavy items such as hot tubs, planters, etc., consult a local building engineer or inspector for span recommendations. If you want to minimize the appearance of joists through the spaces between boards, paint the top of your joists black.

Code Listings
Trex complies with major model building codes and has been evaluated by the International Code Council evaluation service.

For an Materials Safety Data Sheet (MSDS), please visit www.trex.com

Trex Transcend and Trex Escapes
Trex Transcend and Trex Escapes are compliant with the Widland-Urban Interface, California State and San Diego County fire codes. For more information, e-mail question® www.trex.com or call 1-800-BUY-TREX (1-800-289-8739).

ADJUST JOIST SPANNING TO ACCOMMODATE ANGLED DECKING PATTERNS

<table>
<thead>
<tr>
<th>Angle</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>90°</td>
<td>Perpendicular to joists. See chart below.</td>
</tr>
<tr>
<td>60°</td>
<td>At a 60° angle, maximum joist spanning is 2” (51 mm) less than listed in the chart below.</td>
</tr>
<tr>
<td>45°</td>
<td>At a 45° angle, maximum joist spanning is 4” (102 mm) less than listed in the chart below.</td>
</tr>
<tr>
<td>30°</td>
<td>At a 30° angle, maximum joist spanning is 1/2 of the distance listed in the chart below.</td>
</tr>
</tbody>
</table>

TREX DECKING SPAN CHART (On Center)

<table>
<thead>
<tr>
<th>Decking Loading</th>
<th>Residential Decks, Light Duty Docks, Residential/Day care Playground</th>
<th>Commercial Decks, Boardwalks and Marinas</th>
</tr>
</thead>
<tbody>
<tr>
<td>100 psf = 4.8 kN/m²</td>
<td>16” (406 mm)</td>
<td>16” (406 mm)</td>
</tr>
<tr>
<td>200 psf = 9.5 kN/m²</td>
<td>24” (610 mm)</td>
<td>12” (305 mm)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Decking Loading</th>
<th>Commercial Decks, Boardwalks and Marinas</th>
</tr>
</thead>
<tbody>
<tr>
<td>1” (25 mm) Boards (including Porch), and .875” (22 mm) Select Boards</td>
<td>16” (406 mm)</td>
</tr>
<tr>
<td>2” x 6” (51 mm x 152 mm) Boards</td>
<td>24” (610 mm)</td>
</tr>
</tbody>
</table>

TREX RAILING SPAN CHART

<table>
<thead>
<tr>
<th>Maximum Railing Span for all Applications</th>
</tr>
</thead>
<tbody>
<tr>
<td>Transcend, Select, and Reveal railing</td>
</tr>
</tbody>
</table>

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
GAPPING

You must gap Trex decking, both end-to-end and width-to-width. Gapping is necessary for drainage and the slight thermal expansion and contraction of Trex decking boards. Gapping also allows for the shrinkage of the wood joist system.
» **ALWAYS** follow Trex-recommended gapping guidelines.
» Maximum allowable perpendicular overhang for Trex is 4" (102 mm) for non-walking surfaces only.
» All decks require air circulation to keep them dry and looking good. To improve air flow, leave openings under the decking or increase gapping to 3/8" (10 mm).

<table>
<thead>
<tr>
<th>WIDTH-TO-WIDTH GAP</th>
</tr>
</thead>
<tbody>
<tr>
<td>Above 40°F (4.5°C)*</td>
</tr>
<tr>
<td>Below 40°F (4.5°C)*</td>
</tr>
</tbody>
</table>

*Temperature at installation.

<table>
<thead>
<tr>
<th>END-TO-END/END-TO-WIDTH AND ABUTTING GAP</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
</tr>
<tr>
<td>Above 40°F (4.5°C)*</td>
</tr>
<tr>
<td>Below 40°F (4.5°C)*</td>
</tr>
</tbody>
</table>

*Temperature at installation.

When you use the recommended hidden fasteners, the placement of the hidden fastener establishes the designated gap size.

When installing fascia, gapping rules must apply.

### Width-to-Width

The minimum required width-to-width gapping is 1/4" (6 mm). This is allowed for both hot and cold weather installations. For docks and heavily wooded areas, Trex recommends a 3/8" (10 mm) gap as well. No gapping should ever exceed 1/2" (13 mm).

### End-to-End/End-to-Width

Gap Trex decking end-to-end, based upon the temperature at installation. See chart at left. For fastening tips, see page 23.

### Abutting Solid Objects

When decking is abutting a wall, you must also gap it 1/4" - 1/2" (6 - 13 mm) depending on the temperature at installation. See chart at left.
STAIRS

Stairway Detail
» Stair treads built with Trex meet requirements by
the major national building codes. Consult your local
municipality for specific requirements.
» Fasten stair treads continuously across at least four
stringers.
» See chart (at right) for center-to-center spacing of
profiles.
» Dress the sides of the stringers and risers with Trex
fascia or trim for a finished look.
» Most model building codes require the stair treads to
be constructed under the following requirements:
  » Stairways must be at least 36" (914 mm) wide*
  » Stair treads must be at least 11" (280 mm) deep
» Gapping between Trex boards on stair treads must be
1/4" - 3/8" (6 mm - 10 mm).
» The overhang of the stair tread is not to exceed
1/2" (13 mm).

* For railings that are installed directly over stair treads, the stair
treads may need to be larger than 36" (914 mm) wide. Refer to local
building code regulations for details prior to installing stairs and
railings.

NOTE: Trex rails meet all major building codes for use
as a guardrail system. Local municipalities may require
a graspable handrail on stairways. Check with your local
building code official for local requirements. See Trex
ADA Handrail System on pages 89-92.

MAXIMUM SPACING ON CENTER OF JOIST

<table>
<thead>
<tr>
<th>2&quot; x 6&quot; (51 x 152 mm)</th>
<th>12&quot; (305 mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1&quot; x 6&quot; (25 x 152 mm)</td>
<td>9&quot; (24 mm)</td>
</tr>
</tbody>
</table>

Includes Trex Transcend, Enhance, Select, and Escapes

NOTE: 4 STRINGERS ARE REQUIRED IF 12" (305 MM) SPAN;
5 STRINGERS ARE REQUIRED IF 9" (229 MM) SPAN.

2" x 6" (51 mm x 152 mm) represented in diagram above.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
Installing Angled Deck Boards in Corners

For Universal and Stainless Steel (Universal shown here)

ALWAYS start in corner with a small triangular piece of decking at 45° and work outwards. Install Trex Hideaway Hidden fasteners 1/2" (13 mm) off center to keep fastener screws in middle of joists.

How to Butt Seams

1. Install 10" - 12" (254 - 305 mm) framing boards along joists where seams will butt.
2. Place additional fasteners on the adjacent board over the joist and framing boards where the seam will be.
3. Put the first board of the seam in place and secure with fastener.
4. Butt end of second board to first and secure with fastener.

NOTE: Follow end-to-end gapping specifications on page 26.

5. Place second set of fasteners on each side of butt seam for next board.

Routing Square Edge Boards for Trex Hideaway Hidden Fasteners

NOTE: The following Trex Square Edge decking boards (Trex Transcend®, Trex Enhance®, Trex Escapes®, Trex Accents®, and Trex Select®), either 1x6 or 2x6, can be routed.

Using a Trex router bit/groove cutter available at your local Trex dealer:
1. Rout from bottom side of board.
2. Rout the entire length of the board, or at every intersection where board is over support joists.

NOTE: Hidden Fasteners MUST be used at every joist.

Refer to www.trex.com for technical bulletin on how to install stainless steel fasteners using Trex Transcend, Enhance, Select, and Early Generation Trex product.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
HOW TO INSTALL TREX HIDEAWAY® UNIVERSAL HIDDEN FASTENERS
(TREX TRANSCEND, ENHANCE, ESCAPES, ACCENTS, AND SELECT)

NOTE: See page 30 for additional instructions if installing Escapes.

PARTS

Start clip
Universal fastener

TOOLS NEEDED

NOTE: Maximum spacing of deck boards using Hideaway system is 16" (406 mm) on center. Fasteners provide 1/4" (6 mm) gap when installed correctly.

Installing Start Clips and First Board

1. Install start clips on edge of ledger board, centered on each joist. Secure clips with screws.
2. Push grooved edge of deck board into start clips. Important: First board MUST be straight and well secured.

Installing Universal Fasteners

3. Insert fastener into grooved edge of deck board.
4. Align screw hole in fastener with center of joist. Continue along the length of the board at every joist.

NOTE: Screw only halfway down. DO NOT fully tighten.

Installing Second Board

5. Slide second board into place, making sure fasteners fit into groove. Install the next universal fastener on the other side of the second board in the same manner as Steps 3 and 4. DO NOT fully tighten the screw.

Complete Installation

6. Tighten screws on fasteners in first row. Proceed with Steps 3 through 5, tightening down each row after board that follows is in place. Be sure to use a long #1 square bit.

Installing Last Board

Option 1: Using Fascia Board

7a. Pre-drill pilot holes at an angle through grooved edge of deck board into ledger board. Install 2-1/2" (64 mm) screws through pilot holes to secure. Attach a fascia board flush with deck surface.

Option 2: With Deck Board Overhang

7b. Pre-drill pilot holes at 45° angle from below deck surface through rim joist. Seat last board into fasteners overhanging rim joist. Secure board with 2-1/2" (64 mm) screws using pilot holes. Position fascia board below overhanging deck board.
HOW TO INSTALL ESCAPES BOARDS WITH TREX HIDEAWAY UNIVERSAL FASTENERS

1. Follow Steps 1 and 2 for installing start clips and first board. See page 29.
2. At both ends and center of first board, toenail screw (provided with Escapes universal hidden fasteners), at an angle through grooved edge of deck board.
3. Follow Steps 3-5 for installing universal fasteners. See page 29.
4. For every consecutive board installed, toenail screw at an angle through grooved edge of deckboard as stated in Step 2.
5. Follow remaining steps for completing installation and installing last board. See page 29.

HOW TO REPLACE TREX BOARDS INSTALLED WITH TREX HIDEAWAY UNIVERSAL FASTENERS (TREX TRANSCEND, ENHANCE, ESCAPES, ACCENTS, AND SELECT)

Universal Fasteners

1. Remove screws from fasteners on both sides of board to be replaced and remove board.
2. Angle new board to place. See inset box (above).

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
HOW TO REPLACE TREX BOARDS/CONTINUED
INSTALLED WITH TREX HIDEAWAY UNIVERSAL FASTENERS (TREX TRANSCEND, ENHANCE, ESCAPES, ACCENTS, AND SELECT)

Universal Fasteners

3. Slide a fastener for each joist into board grooves from both ends of the board.

**NOTE:** You may have to loosen adjacent boards to slide fasteners into position.

4. Position replacement board and secure fasteners on center of each joist.

HOW TO INSTALL STAIR TREADS
(TREX TRANSCEND, ENHANCE, ESCAPES, ACCENTS, AND SELECT)

Installation Options

**NOTE:** For best results, use square edge decking and manually route sides that will be used to attach hidden fasteners.

**Option 1: Face Screw**
1. Install start clips against riser on each step.
2. Install first board. **Follow steps on page 29.**
3. Install second board. **Follow steps on page 29.**
4. Secure with screws from top of second board into stringer boards.

**Option 2: Using 2” x 4” (51 mm x 102 mm) Wood Support Blocks**
1. Install start clips against riser on each stair tread.
2. Install first board. **Follow steps on page 29.**
3. Attach 2” x 4” (51 mm x 102 mm) blocks between stringers.
4. Pre-drill holes up through blocks.
5. Install second board. **Follow steps on page 29.**
6. Secure with screws from bottom through blocks and into stair treads.
HOW TO INSTALL TREX TRANSCEND® PORCH BOARDS

NOTE: When installing Trex Porch Boards in a non-covered environment, the porch structure should be slightly sloped to help allow for proper drainage. Joists should be sloped 1/8" (3 mm) per foot away from the house to facilitate drainage. Refer to your local building code official for recommendations BEFORE building sub-structure. When installing Trex Porch Floorboards under cover of a roof, no slope is required.

PARTS

![Start clip](image1)
![Universal fastener](image2)

TOOLS NEEDED

![Drill](image3)

NOTE: Refer to page 25 for proper joist spanning requirements.

Installing Start Clips and First Porch Board

1. Measure 3/8" (10 mm) off of edge of ledger board, and install start clip onto ledger board, centered on each joist. Secure clips with screws.
2. Push grooved edge (longer edge side) of porch floorboard into start clips. Important: First board MUST be straight and well secured.

Installing Trex Hideaway Universal Fasteners

3. Insert fastener into grooved edge (shorter edge side) of porch board, making sure to align screw hole in fastener with center of each joist.

4. IT IS SUGGESTED THAT IN ORDER TO KEEP THE FASTENER STRAIGHT AND SECURE, CUT AN 18" (457 mm) PIECE OF PORCH FLOORBOARD SCRAP BOARD AND USE THIS AS AN AID (USE SMALLER LIP SIDE) TO HELP HOLD THE HIDDEN FASTENER DOWN BEFORE SCREWING THIS IN. This will help make sure the fastener stays fully straight for remaining boards to be attached.

5. Fully tighten (but DO NOT over tighten) the screw into each joist while keeping the scrap board in firm place against the hidden fastener.

Installing Second Porch Board

6. Slide second porch boarach into place, making sure fasteners fit into groove. Install the next universal fastener on the other side of the second porch board in the same manner as Steps 3 - 5.
HOW TO INSTALL TREX TRANSCEND PORCH BOARDS/CONTINUED

Installing Last Porch board

Option 1: Using Fascia Board
7a. Pre-drill pilot holes at an angle through grooved edge of porch board into ledger board. Install 2-1/2" (64 mm) screws through pilot holes to secure. Attach fascia board flush with porch board surface.

Option 2: With Porch Board Overhang
7b. Pre-drill pilot holes at 45° angle from below deck surface through rim joist. Seat last porch board into fasteners overhanging rim joist. Secure porch board with 2-1/2" (64 mm) screws using pilot holes. Position fascia board below overhanging porch board.

NOTE: In most cases there will be additional screws that come with the Trex Hideaway Universal Hidden Fasteners. These screws can also be used for attachment of the last board in the method shown above.

HOW TO INSTALL PORCH STAIR TREADS

NOTE: Use square edge composite decking boards and manually route these on one side to allow for use with hidden fasteners.

Option 1: Using Hidden Fasteners and Face Screwing
1. Install start clips against riser on each step.
2. Install first board. Follow steps on page 29.
3. Install second board. Follow steps on page 29.
4. Secure with screws from top of second board into stringer boards.

Option 2: Using Hidden Fasteners and 2" x 4" (51 mm x 102 mm) Wood Support Blocks
1. Install start clips against riser on each stair tread. Follow steps on page 29.
2. Install first board. Follow steps on pages page 29.
3. Attach 2" x 4" (51 mm x 102 mm) blocks between stringers.
4. Pre-drill holes up through blocks.
5. Install second board. Follow steps on page 29.
6. Secure with screws from bottom through blocks and into stair treads.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
LOCATION AND INSTALLATION OF POST MOUNTS

IMPORTANT NOTES:

» EACH POST MUST BE ATTACHED AS SHOWN TO ENSURE A CODE COMPLIANT AND SAFE INSTALLATION.

» ALWAYS REFER TO YOUR LOCAL BUILDING CODE OFFICIAL PRIOR TO INSTALLING ANY RAILING SYSTEM TO ENSURE ALL CODE AND SAFETY REQUIREMENTS ARE MET. TRESPRO® CANNOT BE HELD RESPONSIBLE FOR IMPROPER OR NON-RECOMMENDED INSTALLATIONS.

» WHEN INSTALLING TRESPRO POST MOUNTS ON ACQ OR CCA SURFACES, USE AN APPROPRIATE ISOLATION BARRIER BETWEEN POST AND SURFACE (CONTACT LOCAL BUILDING CODE OFFICIAL IF NEEDED).

» ENSURE THAT CORRECT SKU HARDWARE IS ORDERED FOR THE TYPE OF RAILING BEING INSTALLED.

» CANNOT BE USED WITH TRESPRO TRANSCEND COCKTAIL RAILING.

TOOL AND MATERIALS NEEDED

» Drill and/or screw gun

» 1/2” (13 mm) drill bit for wood

» Blocking - 2” x 8” (51 mm x 203 mm) pressure-treated Southern Yellow Pine or equivalent

» Qty. 36 (per post) - 3” (76 mm) pressure-treated compatible wood screws

PARTS

» (1) Post mount

» (2) Guide blocks

» (18) #8-15 x 1-1/4” (3.2 cm) Self-tapping screw

» (2) 10 x 1” (2.5 cm) Self-tapping screws

SKU ALPOSTHWDECK (this SKU SOLD SEPARATELY and must be used for code-approved applications)

» (4) 3/8” x 6” (1 cm x 15.2 cm) Hex cap bolts

» (1) Back plate

» (8) Flat washers

» (4) Hex nuts

How to Install Post Mounts on Pressure-treated Wood Framing

Corner Post Installation

1. Install 2” x 8” (51 mm x 203 mm) cross bracing frame in-between joists at 7-1/4” (184 mm). Attach a total of twelve 3” (76 mm) pressure-treated compatible screws (not provided).

2. Install two 2” x 8” (51 mm x 203 mm) boards as blocking under post location. Securely attach blocking using a total of twenty-four 3” (76 mm) pressure-treated compatible screws (not provided).

NOTE: TO ENSURE THE BLOCKING IS FULLY SECURE, USE THE AMOUNT OF SCREWS INDICATED ABOVE.

TIP: USE TWO ADDITIONAL SCREWS TO “SANDWICH” BLOCKING BOARDS TOGETHER FOR EASIER ATTACHMENT TO FRAMING.
Line Post Installation

3. Install two 2" x 8" (51 mm x 203 mm) cross bracing frames in-between joists at 7-1/4" (184 mm). Attach a total of twelve 3" (76 mm) pressure-treated compatible screws (not provided).

4. Install two 2" x 8" (51 mm x 203 mm) boards as blocking under post location. Securely attach blocking using a total of twenty-four 3" (76 mm) pressure-treated compatible screws (not provided).

5. **NOTE:** RIM JOIST REMOVED TO SHOW PROPER ATTACHMENT OF HARDWARE.

Level posts if necessary using stainless steel leveling shims (provided). Ensure that post is placed on decking surface so that it clears the rim joist and there is enough clearance on the underside blocking for the back plate to be installed.

Attach posts using four 3/8" x 6" (10 mm x 152 mm) hex cap bolts, washers, and nuts, along with aluminum back plate on underside of blocking. This back plate **MUST** be installed under the decking to ensure this will meet code compliance. Reference SKU part number ALPOSTHWDECK for required hardware and aluminum plate.

*NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.*
LOCATION AND INSTALLATION OF POSTS/CONTINUED

How to Install Guide Blocks

**NOTE:** Pre-drilling is not required but is optional for attachment of guide blocks to post. Use a drill bit slightly smaller in size than that of screw being installed.

6. Place or rest bottom aluminum guide block on bottom of post. Place guide on post so that notch is on a side that does not require railing to be attached.

7. Attach bottom guide block using one 10 x 1” self-tapping screw (provided) in notch to lock guide block onto post.

8. Location of top guide block will vary slightly based on type and height of railing being installed. Determine this measurement and place top guide block in location where top bracket for desired railing would be approximately on center of the top railing bracket location.

9. Attach top guide block using one 10 x 1” self tapping screw (provided) in notch to lock guide block onto post.

How to Install Railing System of Choice

**NOTES:**

» Quantity of 18 self-tapping screws are provided to cover all types of Trex railing bracket installations (Transcend, Reveal, and Select). Thus depending on the type railing being installed, you may have screws that are not used.

» If using 6x6 post sleeves, attach designated railing brackets using #8-15 x 1-3/4” (44 mm) 316 stainless steel self-tapping screws (not provided).

» Pre-drilling is not required but is optional for attachment of brackets to guide blocks. Use a drill bit slightly smaller in size than that of screw being installed.

**NOTE:** If installing Trex Lighting on the posts, drill hole through support blocks to allow wiring for lights to be below the surface of the decking.
**TREX TRANSCEND® RAILING**

**NOTES:**

» TREX TRANSCEND RAILINGS ARE DESIGNED TO BE INSTALLED OVER THE DECKING FRAME OR ON INSIDE OF RIM JOIST. NOTCHING OF PRESSURE-TREATED POSTS OR POSTS INSTALLED ON OUTSIDE OF RIM JOIST ARE NOT ALLOWED.

» All Trex Transcend Railing lengths are manufactured at ON CENTER dimensions (spanning from center of each post): 67-5/8” (1718 mm) for 6’ (1.83 m) on center, and 92-5/8” (2353 mm) for 8’ (2.44 m) on center. Note that railings are designed to be slightly longer that required to allow for very slight play in post placement – some minimal trimming may be required. IT IS VERY IMPORTANT TO MEASURE FIRST.

---

**PARTS**

A. Crown or Universal
B. Universal
C. Trex railing support bracket (RSB)
D. TrexExpress™ Railing Assembly Template*
E. Rail gaskets
F. Balusters
G. Post sleeve cap*
H. Post sleeve skirt*
I. Post sleeve - 4” x 4” (102 mm x 102 mm) or 6” x 6” (152 mm x 152 mm) post sleeve)**
J. Trex decking
K. Trex fascia
L. Code-approved wood joist - 2” x 8” (51 mm x 203 mm)
M. Code-approved wood rim joist - 2” x 8” (51 mm x 203 mm) or larger
N. Adjustable foot block
O. Baluster spacer

**Trex Transcend® Glass Panel Parts List**
P. Panel support molding
Q. Tempered glass panel*
R. Trex panel support molding spacer
S. Weatherstripping

* Item not included in the Transcend railing kits.
** Both 4” x 4” (102 mm x 102 mm) and 6” x 6” (152 mm x 152 mm) post sleeves are designed to fit over 4x4 pressure-treated post.

---

**DETERMINING BALUSTERS NEEDED**

<table>
<thead>
<tr>
<th>Baluster Type</th>
<th>Per 6’ OC Section</th>
<th>Per 8’ OC Section</th>
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<tbody>
<tr>
<td>Square and Colonial</td>
<td>13</td>
<td>18</td>
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<tr>
<td>(Horizontal Application)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Square and Colonial</td>
<td>11</td>
<td>15</td>
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<tr>
<td>(Stair Application)</td>
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<tr>
<td>Round/Square Aluminum</td>
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<tr>
<td>(Horizontal Application)</td>
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<tr>
<td>Round/Square Aluminum</td>
<td>12</td>
<td>16</td>
</tr>
<tr>
<td>(Stair Application)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NOTE:** Basic installation for balusters is the same for all options. When using round or square aluminum balusters, use correct baluster spacers. Do not cut to actual 42” length without confirming what style of railing you are installing.

**NOTE:** If using post mounts, refer to detailed instructions provided with post mounts for attaching these prior to installation of any railing type.

---

**BALUSTER OPTIONS**

Standard  Colonial  Round Aluminum  Square Aluminum
TREX TRANSCEND
RAILING CONFIGURATIONS

Standard Crown

Cutting post sleeves is NOT required.
A. Pressure-treated post or Trex post mounts with Trex Transcend post sleeve
B. Crown rail
C. Universal bottom
D. Trex balusters
See page 40 for “How to Install Standard Railing”.

Cocktail

Post sleeves WILL NEED TO BE CUT.
A. Pressure-treated post with Trex Transcend post sleeve
   NOTE: Only for use with 4” x 4” (102 mm x 102 mm) post sleeve.
   Trex Post Mounts cannot be used with Transcend® cocktail design.
B. Deck board top rail. NOTE: 5” (127 mm) contours and escapes cannot be used.
C. Universal top rail
D. Universal bottom
E. Trex balusters
See page 42 for “How to Install Cocktail Railing”.

Traditional

Cutting post sleeves is NOT required.
A. Pressure-treated post or Trex post mounts with Trex Transcend post sleeve
B. 2” x 4” (51 mm x 102 mm) lateral top rail
C. Universal top rail
D. Universal bottom
E. Trex balusters
See page 43 for “How to Install Traditional Railing”.

Round Aluminum

Square Aluminum

» Follow desired railing style instructions found above, substituting correct baluster spacer for type of baluster being used.
» Refer to detailed instructions for added steps when using round and square aluminum balusters. See page 44.

Glass Panel

Cutting post sleeves is NOT required.
A. Pressure-treated post with Trex Transcend post sleeve. Trex post mounts (for decking or concrete) cannot be used with glass panels.
B. Crown rail (use universal rail if building cocktail or traditional design with glass inserts)
C. Universal bottom
D. Tempered glass panel (NOT included in kit)
See page 45 for “How to Install Standard Glass Panel Railing”; page 46 for “How to Install Cocktail Style Glass Panel Railing”; and page 48 for “How to Install Traditional Style Glass Panel Railing”.
NOTE: Glass panels are NOT recommended in stair applications.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
Read all instructions BEFORE installation.

Important: Post sleeves are NOT to be cut for this design style.

Installing Pressure-Treated Posts

» Posts are to be installed 6’ (1.83 m) or 8’ (2.44 m) on center to accommodate appropriate railing length.

» Attach posts using 1/2” (13 mm) carriage bolts.

» Minimum joist size is 2” x 8” (51 mm x 203 mm).

» Top bolts must be 1” (25 mm) from tops of joists.

» Bottom bolts must be 5-1/8” (130 mm) from top bolts.

NOTE: Blocking can be added for extra strength.

Installing Post Sleeve Skirts and Post Sleeves

2. Slide post sleeve skirt over post and down to rest on decking surface. Slide post sleeve over post and position inside post sleeve skirt.

NOTE: Shims can be used to plumb post sleeves.

Installing Railing Support Brackets (RSBs)

Option 1: Without TrexExpress™ railing template

3a. Mark 5-1/2” (140 mm) and 35-1/16” (891 mm) from deck surface OR for 42” (1067 mm) height, mark 5-1/2” (140 mm) and 41-1/16” (1043 mm) from the deck surface.

3b. Place RSBs directly under marks, center on posts, and secure with 2” (51 mm) wood screws (provided with post sleeve). Place top RSBs flat side UP, bottom RSBs flat side DOWN.

Option 2: With TrexExpress™ railing template

3c. Place RSBs in template. Place top RSBs flat side UP, bottom RSBs flat side DOWN. Secure template on post with tape or rubber band, with bottom of template resting on post skirt.

3d. Secure RSBs with 2” (51 mm) wood screws (provided in railing kit) and remove template.

NOTES: Special steps are necessary when using 6” x 6” (152 mm x 152 mm) plastic TrexExpress™ template.

» Cut off 1/2” (13 mm) from the bottom (blue arrows up) of the tool BEFORE first use.

» Position top RSBs ONLY, 6” (152 mm) higher for 42” (1067 mm) rail height.

» Secure RSBs with 2-1/2” (64 mm) wood screws (provided with post sleeve) and remove template.
Cutting Railings
4. Measure between posts and cut rails to same length.

NOTES:
» If using optional rail gaskets, subtract 1/16" (1.6 mm) from each end.
» Attach baluster spacers to railing before cutting to allow for cleaner cut and less work.
» When measuring, cut equal lengths from each side of railing and baluster spacer to ensure equal spacing of balusters per each railing section.
» In some cases, the gasket can be attached before tightening railing to RSB.
» If gaskets are tight, use a small flat head screwdriver to compress the tabs of the gasket if they are stuck outside the rail.

Attaching Bottom Rail (Universal Rail) and Foot Block
NOTE: FOOT BLOCKS COME WITH SPECIFIC INSTRUCTIONS ON HOW TO ATTACH TO RAILINGS—ALSO REFER TO THESE INSTRUCTIONS AS WELL.

5a. Center foot block in universal rail channel or on beveled bottom rail and attach. DO NOT extend foot block.
5b. Lift bottom rail so RSBs are in the channel and attach with self-tapping screws (provided).
5c. Telescope foot block down and screw through opposite sides. Place screw plugs.

Placing Baluster Spacers and Balusters
6. Cut baluster spacers the same length as rails, equally spaced so the holes line up.
7. Snap baluster spacer into bottom rail. Place inverted baluster spacer on top of first baluster spacer. Place balusters in baluster spacer holes.

Attaching Top Rail – Crown Rail
8. Place crown rail on RSBs with balusters in rail channels. Attach top rail to RSB with two self-tapping screws (provided).
9. Slide baluster spacer up and snap into top rail. Place optional top rail gaskets on each end of rail.

Attaching Post Caps
10. Secure post caps with silicone or PVC adhesive.

NOTE: Clean-up any excess adhesive before drying.
**HOW TO INSTALL COCKTAIL RAILING**

**TREX TRANSCEND**

*Important: ONLY* use with 4” x 4” (102 mm x 102 mm) post and post sleeve. Cutting post and post sleeve **ONLY** apply to the Cocktail style railing.

1. **Installing Pressure-Treated Posts**  
   See instructions on page 40.

2. **Cutting Post and Post Sleeve**  
   1a. Mark and cut post and post sleeve measuring from deck surface:  
        » 36-3/16” (919 mm) for 36” (914 mm) height.  
        » 42-3/16” (1072 mm) for 42” (1067 mm) height.

3. **Installing Post Sleeve Skirts and Post Sleeves**  
   See instructions on page 40.

4. **Installing Railing Support Brackets (RSBs)**  
   See instructions on page 40.

5. **Cutting Railings**  
   See instructions on page 41.

6-7. **Attaching Bottom Rail (Universal Rail) and Foot Block**  
   See instructions on page 41.

8. **Attaching Inverted Universal Rail as Top Rail**

   8. Place inverted universal rail onto RSBs with balusters in channel. Attach universal rail to RSBs with two self-tapping screws *(provided).*

   9. Place deck boards *(DO NOT use Escapes, Select, or Contour deck boards for top rail)* over universal rails. Attach boards on each post with Trex-recommended composite screws at a diagonal. Secure boards to universal rails with 2” (51 mm) pan-head screws *(not provided)* at an angle every 16” (406 mm) on center.

10. Slide baluster spacers up and snap into universal rails.

**NOTE:** If necessary, cut tips off rail gaskets prior to installation.

11. Use scarf cut for posts where two deck boards meet.

**NOTE:** If installing in weather below 40°F (4.5°C), leave 1/8” (3 mm) gap between deck boards.
1. **Installing Pressure-Treated Posts**  
   See instructions on page 40.

2. **Installing Post Sleeve Skirts and Post Sleeves**  
   See instructions on page 40.

3. **Installing Railing Support Brackets (RSBs)**  
   See instructions on page 40.

4. **Cutting Railings**  
   See instructions on page 41.

5. **Attaching Bottom Rail (Universal Rail) and Foot Block**  
   See instructions on page 41.

6-7. **Placing Baluster Spacers and Balusters**  
   See instructions on page 41.

**Attaching Inverted Universal Rail as Top Rail**

8. Place inverted universal rail onto RSBs with balusters in channel. Attach universal rail with two self-tapping screws (provided).

9. Measure between posts and cut 2” x 4” (51 mm x 102 mm) to length.

10. Place 2” x 4” (51 mm x 102 mm) on universal rail. Attach board to rail with 2” (51 mm) pan-head screws (not provided) every 16” (406 mm) on center.

   Pre-drill a pilot hole and toenail 2-1/2” (64 mm) screw at each end of 2” x 4” (51 mm x 102 mm) into post on back side of rail (side not facing decking).

11. Slide baluster spacer up and snap into universal rail.

   **NOTE:** If necessary, cut tips off rail gaskets prior to installation.

12. **Attaching Post Caps**  
   See instructions on page 41.

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**NOTE:** Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
HOW TO INSTALL ROUND OR SQUARE ALUMINUM BALUSTERS
TREX TRANSCEND

NOTE: Older style crown and universal rails have “flippers” on the inside of the channels. Using EXTREME CAUTION, remove/cut these flippers on each side to allow for the fit of the aluminum baluster adaptor strip.

1. Installing Pressure-Treated Posts
   See instructions on page 40.

2. Installing Post Sleeve Skirts and Post Sleeves
   See instructions on page 40.

3. Installing Railing Support Brackets (RSBs)
   See instructions on page 40.

4. Cutting Railings
   See instructions on page 41.

5. Attaching Bottom Rail (Universal Rail) and Foot Block
   See instructions on page 41.

Installing Aluminum Baluster Adaptor Strip and Baluster Spacers

6. After bottom rail is fully installed, place aluminum baluster adaptor strip into channel of bottom rail, ensuring that it’s fully seated into the channel. When rail lengths are non-standard, the baluster adaptor strip will need to be cut 2-1/2” (64 mm) shorter than the rail to allow clearance for the RSB’s on each end.

7. Snap baluster spacer into bottom rail. Place inverted baluster spacer on top of first baluster spacer.

Attaching Top Rail, Aluminum Baluster Adaptor Strip, and Balusters and Bottom Baluster Spacer

8. Place crown rail on RSBs with balusters in rail channels. Attach top rail to RSB with two self-tapping screws (provided).

9. After top rail is fully installed, place aluminum baluster adaptor strip into channel of top rail, ensuring that it’s fully seated into the channel.

10. Working at slight angle, press baluster through both baluster spacers and into bottom aluminum baluster adaptor strip, ensuring balusters are tight. Once balusters are seated into aluminum baluster adaptor strip of bottom rail, maneuver baluster into upper rail aluminum baluster adaptor strip. Some force will be needed to press balusters into place and level these.

TIP: Ensure balusters are level prior to attempting to slide baluster spacer up. This will allow for the baluster spacer to move up freely and snap into upper rail. Use of a rubber mallet to gently tap balusters in level is recommended.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
HOW TO INSTALL ROUND OR SQUARE ALUMINUM BALUSTERS/CONTINUED

11. Slide baluster spacer up and snap into top rail. Place optional top rail gaskets on each end of rail.

HOW TO INSTALL STANDARD GLASS PANEL RAILING

1. Installing Pressure-Treated Posts
   See instructions on page 40.

2. Installing Post Sleeve Skirts and Post Sleeves
   See instructions on page 40.

3. Installing Railing Support Brackets (RSBs)
   See instructions on page 40.

4. Cutting Railings
   See instructions on page 41.

5. Attaching Bottom Rail (Universal Rail) and Foot Block
   See instructions on page 41.

Attaching Weatherstripping and Positioning Panel

6. Push black-edged trim onto upper and lower edges of panel. Be sure trim runs entire length of glass. Extra trim can be cut with razor blade or scissors.

7. Position panel with weatherstripping into lower rail channel. Center panel between posts with about 2” (51 mm) of air space on each side of panel.

NOTES: Read all instructions BEFORE installation.

» You must purchase the 1/4” (6 mm) tempered glass panels. See dimensions below.

» Glass panels ONLY for use with maximum 6’ (1.83 m) on center post spacing.

» NOT recommended for stair applications.

TEMPERED GLASS PANEL DIMENSIONS

» 36” (914 mm) high rail:
  1/4” x 30” x 63-1/2” max.
  (6 mm x 762 mm x 1613 mm)

» 42” (1067 mm) high rail:
  1/4” x 36” x 63-1/2” max.
  (6 mm x 914 mm x 1613 mm)
HOW TO INSTALL STANDARD GLASS PANEL RAILING / CONTINUED
TREX TRANSCEND

Attaching Top (Crown) Rail

8. Place top rail over RSB brackets and glass panel. Secure rail to RSBs with 1-1/2" (38 mm) self-drilling screws (provided).

NOTE: Avoid hitting glass panel while using the drill.

Attaching Panel Support Molding

9. Push PSM into rail to complete snap connection. Lower rail PSM edge rests on top of rail. Top rail PSM snaps flush into rail. If using beveled rails, the PSM will rest on the edges on the rail.

Hiding Brackets

10. Cut Transcend baluster spacer into four lengths equal to distance between the glass panel and posts. Cut slowly and one at a time, to avoid chipping.

11. Snap spacer into bottom and top rail to hide brackets and create a seamless look.

12. Attaching Post Caps

See instructions on page 41.

HOW TO ATTACH COCKTAIL STYLE GLASS PANEL RAILING
TREX TRANSCEND

NOTES: Read all instructions BEFORE installation.
» You must purchase the 1/4" (6 mm) tempered glass panels. See dimensions at right.
» Glass panels ONLY for use with maximum 6' (1.83 m) on center post spacing.
» NOT recommended for stair applications.

TEMPERED GLASS PANEL DIMENSIONS

» 36" (914 mm) high rail:
  1/4" x 30" x 63-1/2" max.
  (6 mm x 762 mm x 1613 mm)

» 42" (1067 mm) high rail:
  1/4" x 36" x 63-1/2" max.
  (6 mm x 914 mm x 1613 mm)

1. Installing Pressure-Treated Posts

See instructions on page 40.

NOTE: If installing glass with Cocktail Rail design, rail posts and post sleeves must be cut.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
HOW TO ATTACH COCKTAIL STYLE GLASS PANEL RAILING

1a. Cutting Post and Post Sleeve
See instructions on page 42.

2. Installing Post Sleeve Skirts and Post Sleeves
See instructions on page 40.

3. Installing Railing Support Brackets (RSBs)
See instructions on page 40.

4. Cutting Railings
See instructions on page 41.

5. Attaching Bottom Rail (Universal Rail) and Foot Block
See instructions on page 41.

6-7. Attaching Weatherstripping and Positioning Panel
See instructions on page 45.

Attaching Top Rail

8. Cut deck boards to appropriate length of railing span, remembering to include extra space on each side of the deck board to allow for attachment to the post. Decking boards must cover 1/2 of the pressure-treated post to allow this to be fastened later. If you include extra decking material on each side this can be cut off later if need be.

9. Place inverted deck board (place top side of deck board down) on clean, flat surface. (DO NOT use Escapes, Select, or Contour deck boards for top rail.)

10. Place universal rail (remembering to orient this properly so that when flipped over, the universal rail will accept the baluster spacer and balusters), on the deck board, centered in both directions to allow for final attachment to post.

11. Secure deck board to universal rail with 2” (51 mm) pan head screws (not provided) approximately every 16” (406 mm) on center. (DO NOT overtighten.)

12. Place inverted universal rail with deck board attached onto RSB’s with glass panel in the channel. Attach universal rail to RSB’s with two self-tapping screws (provided).

13. Attach deck board to post (ensure that screws are attached to wood post) with Trex recommended composite screws at a diagonal.

14. Attaching Panel Support Moldings
See instructions on page 46.

15-16. Hiding Brackets
See instructions on page 46.
HOW TO ATTACH TADITIONAL STYLE GLASS PANEL RAILING

TREX TRANSCEND

NOTES: Read all instructions BEFORE installation.
» You must purchase the 1/4" (6 mm) tempered glass panels. See dimensions below.
» Glass panels ONLY for use with maximum 6’ (1.83 m) on center post spacing.
» NOT recommended for stair applications.

TEMPERED GLASS PANEL DIMENSIONS
» 36" (914 mm) high rail:
  1/4" x 30" x 63-1/2" max.
  (6 mm x 762 mm x 1613 mm)

» 42" (1067 mm) high rail:
  1/4" x 36" x 63-1/2" max.
  (6 mm x 914 mm x 1613 mm)

1. Installing Pressure-Treated Posts
   See instructions on page 40.

2. Installing Post Sleeve Skirts and Post Sleeves
   See instructions on page 40.

3. Installing Railing Support Brackets (RSBs)
   See instructions on page 40.

4. Cutting Railings
   See instructions on page 41.

5. Attaching Bottom Rail (Universal Rail) and Foot Block
   See instructions on page 41.

6-7. Attaching Weatherstripping and Positioning Panel
   See instructions on page 45.

Attaching Top Rail

8. Cut 2" x 4" (51 mm x 102 mm) to same length of the inverted Universal rail.

9. Place inverted 2" x 4" (51 mm x 102 mm) (place top side down) on clean, flat surface.
10. Place universal rail (remembering to orient this properly so that when flipped over, the universal rail will accept the baluster spacer and balusters), on the 2" x 4" (51 mm x 102 mm), centered.
11. Secure 2" x 4" (51 mm x 102 mm) to universal rail with 2" (51 mm) pan head screws (not provided) approximately every 16” (406 mm) on center.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
HOW TO ATTACH TRADITIONAL STYLE GLASS PANEL RAILING/CONTINUED
TREX TRANSCEND

12. Place inverted universal rail with 2” x 4” (51 mm x 102 mm) attached onto RSB’s with glass panel in the channel. Attach universal rail to RSB’s with two self-tapping screws (not provided).

13. Pre-drill a pilot hole and toenail 2-1/2” (64 mm) screw at each end of the 2” x 4” (51 mm x 102 mm) into post on back side (side not facing decking).

14. Attaching Panel Support Moldings
See instructions on page 46.

15-16. Hiding Brackets
See instructions on page 46.

17. Attaching Post Caps
See instructions on page 41.

HOW TO INSTALL ON-AN-ANGLE RAILING
TREX TRANSCEND (CROWN AND UNIVERSAL RAILING)

**NOTE:** Trex Railing brackets are designed to be installed up to a 45° angle.

- **Small angles** (1° - 30°). Both 4” x 4” (102 mm x 102 mm) or 6” x 6” (152 mm x 152 mm) post sleeves work well.
- **Large angles** (31° - 45°). **USE ONLY** 6” x 6” (152 mm x 152 mm) post sleeves when installing on flat side.
- **45° angles** using 4” x 4” (102 mm x 102 mm) post sleeves **MUST** use Transcend bird’s mouth brackets.

**NOTE:** Railing will be installed on corner of posts.

- Using 6” x 6” (152mm x 152 mm) post sleeves at 45° angles. Brackets are installed off-center and use 45° Transcend gaskets.
- Railing gaskets are designed to fit at 0°, 22.5°, and 45° angles. Gaskets are labeled with appropriate angle dimension.
**HOW TO INSTALL CROWN AND UNIVERSAL BIRD’S MOUTH RAILING**

**TREX TRANSCEND**

**NOTES:**
- Use with 4” x 4” (102 mm x 102 mm) post sleeve ONLY.
- Gaskets are only designed for use with Transcend crown and universal railing.

Read all instructions BEFORE installation.

**PARTS**

Attaching Adaptors
Snap adaptors into RSBs.

**Pre-drill Bottom and Top RSBs**

2. Position RSBs with adaptor (flat side DOWN) for lower rail, mark and pre-drill screw holes with 1/8” (3 mm) drill bit on post.
3. Position RSBs with adaptor (flat side UP) for top rail, mark and pre-drill screw holes with 1/8” (3 mm) drill bit on post.

**Measuring and Cutting Rails**

4. Measure from corner-to-corner between posts. Mark 45° cuts on rails with template on assembly tool. Center of “V’s” is the distance from corner-to-corner for posts.

**NOTE:** Subtract 1/16” (1.6 mm) from each end to accommodate rail gaskets.

**Attaching Top and Bottom RSBs**

5. Attach RSBs with adaptors to posts with wood screws (provided).

**NOTES:**
- Drill at slight inward angle to drill holes on marks.
- Lay cut lower rail into position on decking surface between the posts before attaching the lower RSB. There may be some difficulty attaching the lower rail if you fail to do this.

**Mark Posts**

1. Measure and mark 4” (102 mm) and 33-9/16” (852 mm) up from top of post skirt. For a 42” (1067 mm) rail, top mark is 39-9/16” (1005 mm) on post.

**NOTE:** Without skirt, add 1-1/2” (38 mm) to measurements.

**NOTE:** Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
HOW TO INSTALL CROWN AND UNIVERSAL BIRD’S MOUTH RAILING/CONTINUED

Installing Railings to RSB’s
6. Attach with self-tapping screws (provided).

Using Miter Box Saw to Cut Rails
1. Place 2” x 4” (51 mm x 102 mm) on edge behind the rail to allow for complete cut.
2. Angle blade to 45°.
3. Set stop on saw so blade travels half the depth of rails. Several test cuts can be made on scrap material to accurately set the stop.
4. “V” cut both sides of the rail.

NOTE: Transcend’s crown and universal rails will require different stop settings.

HOW TO INSTALL CROWN AND UNIVERSAL STAIR RAILING TREX TRANSCEND

Read all instructions BEFORE installation.

NOTE: All Transcend railings and gaskets work ONLY WITH STAIR SLOPES OF 32°-37°.

Installing Posts, Post Sleeve Skirts, and Post Sleeves for Stair Rails
1. Install posts, post sleeve skirts, and post sleeves according to standard Transcend railing instructions. See page 40.
   » In most cases, a post and post sleeve longer than 39” (991 mm) will be needed on the lower section of stair rail to accommodate stair angle.
   » Make sure top and bottom posts for stairs are installed at nose of each tread.

Measuring and Cutting Railings
2. Set railing along the nose of the stair treads and mark line at each intersection. Cut rails on marks.

NOTE: If using railing gaskets, subtract 1/16” (1.6 mm) maximum, from each end and cut.
HOW TO INSTALL CROWN AND UNIVERSAL STAIR RAILING/CONTINUED
TREX TRANSCEND

Positioning RSBs on BOTTOM Post

3. Position bottom rail between posts and slide TrexExpress railing assembly template into position with bottom rail outline on template aligned with end of bottom rail. Allow a minimum clearance of 1" (25 mm) from stair tread. Secure template with rubber bands. Remove rail.

Attaching RSBs to BOTTOM Post

4. Attach upper and lower RSBs to bottom post, flat side UP, with wood screws provided. Remove template and place a second RSB, turned upside down, and interlock on each bracket.

Positioning RSBs on UPPER Post

5. Position pre-cut bottom rail between posts. Slide TrexExpress railing assembly template into position, aligning bottom rail outline on template with end of bottom rail. Use rubber bands to hold template in place. Remove rail.

Attaching RSBs on UPPER Posts

6. Attach upper and lower RSBs to top post, flat side DOWN. Remove template. Take second RSB, turn upside down and interlock into each bracket.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
HOW TO INSTALL CROWN AND UNIVERSAL STAIR RAILING/CONTINUED
TREX TRANSCEND

Complete Stair Rails Installation
7. Install foot blocks prior to installing lower rail. Refer to detailed instructions included with Footblock. For stair application, cut top section of foot block at an angle to match rail, pre-drill, and fasten. Install top and bottom railings, balusters, and baluster spacers according to previous instructions based on the style railing that is installed.

Attaching Optional Gaskets

<table>
<thead>
<tr>
<th>Crown Stair Gasket Locations</th>
<th>Universal Rail Stair Gasket Locations</th>
</tr>
</thead>
<tbody>
<tr>
<td>STR T2</td>
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</tr>
<tr>
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<td>STR B2</td>
<td>STR B2 BL</td>
</tr>
<tr>
<td>STR B1</td>
<td>STR TL B2</td>
</tr>
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</table>

8. Stair railing gaskets are designed to fit at slopes of 32° to 37°. Gaskets are labeled in order to ensure correct location.

Attaching Post Caps
9. Secure post caps with silicone or PVC adhesive.

NOTE: Clean-up any excess adhesive before drying.
**NOTES:**

- REVEAL RAILINGS ARE DESIGNED TO BE ATTACHED WITH POSTS INSTALLED AT A CLEAR SPAN OF 6’ (1.83 M) OR 8’ (2.44 M).
- IF INSTALLING AT EXACT SPAN LENGTHS OF 6’ (1.83 M) OR 8’ (2.44 M), AND USING POST-TO-POST CONFIGURATION, THE BOTTOM RAIL WILL NOT NEED TO BE CUT, BUT THE TOP RAIL WILL NEED TO BE MEASURED (MAKING SURE BALUSTERS LINE UP VERTICALLY) AND CUT.
- IF INSTALLING AT EXACT SPAN LENGTHS OF 6’ (1.83 M) OR 8’ (2.44 M), AND USING CROSSOVER POST CONFIGURATION (SPANS FROM ONE CROSSOVER POST TO ANOTHER CROSSOVER POST), BOTH THE BOTTOM RAIL AND TOP RAIL WILL NOT NEED TO BE CUT.
- IN ADDITION, AT ALL FINAL END POST CONFIGURATIONS, TOP RAIL WILL NEED TO BE MEASURED (MAKING SURE BALUSTERS LINE UP VERTICALLY) AND CUT.
- FOR ODD SPAN LENGTHS, BOTH TOP RAIL AND BOTTOM RAIL WILL NEED TO BE MEASURED (MAKING SURE BALUSTERS LINE UP VERTICALLY) AND CUT. ENSURE THAT BALUSTERS ARE SPACED WITH AN EQUAL DISTANCE ON EACH SIDE OF THE POST.
- WHEN RAILINGS ARE CUT TO ODD SPANS, ALL SPANS GREATER THAN 5’ (1.52 M) (EXAMPLE: 8’ (2.44 M) SPAN CUT INTO ONE 5’ (1.52 M) SPAN AND ONE 3’ (0.91 M) SPAN) WOULD REQUIRE FOOT BLOCK UNDER 5’ (1.52 M) SPAN SINCE SMALLER FIXED BALUSTER IS NO LONGER CENTERED.

## PARTS

- A. Reveal top rail and crowned cover
  - 6’ (actual length 73.5” [1867 mm])
  - 8’ (actual length 97.5” [2477 mm])
- B. Reveal bottom rail and flat cover
  - 6’ Rail (actual length 71.5” [1816 mm])
  - 6’ Cover (actual length 70.0” [1778 mm])
  - 8’ Rail (actual length 95.5” [2426 mm])
  - 8’ Cover (actual length 94.0” [2388 mm])
- C. Reveal upper rail bracket and cover
- D. Reveal lower rail bracket and cover
- E. Reveal balusters (square or round)
- F. Reveal center baluster (square or round)
- G. Reveal foot block**
- H. Reveal post skirt or post sleeve skirt*
- I. Reveal post*
  - 2” (or 2.5” depending on application)
  - 36” (actual length 37” [940 mm])
  - 42” (actual length 43” [1092 mm])
  - Trex 4x4 post sleeve*
  - 36” (actual length 39” [991 mm])
  - 42” (actual length 45” [1143 mm])
- J. Reveal crossover post*
  - 36” (actual length 34.5” [876 mm])
  - 42” (actual length 40.5” [1029 mm])
- K. Reveal post cap or post sleeve cap*
- L. Trex decking
- M. TrexTrim™ or Trex™ Fascia
- N. Code-approved wood joist 2” x 8”
  - (51 mm x 203 mm) or larger
- O. Code-approved wood rim joist 2” x 8”
  - (51 mm x 203 mm) or larger
- P. Crossover bracket cover (supplied with crossover post)

### BALUSTER OPTIONS

- Square
- Round

## DETERMINING BALUSTERS NEEDED

<table>
<thead>
<tr>
<th>Baluster Type</th>
<th>Per 6’ Section</th>
<th>Per 8’ Section</th>
<th>Per 6’ Stair Section</th>
<th>Per 8’ Stair Section</th>
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<td>Round</td>
<td>15</td>
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</table>

**NOTE:** THIS IS AN OVERVIEW OF ALL RAILING COMPONENTS FOR REVEAL HORIZONTAL APPLICATIONS – REFER TO DETAILED INSTRUCTIONS FOR SPECIFIC RAILING CONFIGURATIONS.

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* Item not included in Reveal Railing kits. Both 4” x 4” (102 mm x 102 mm) and 6” x 6” (152 mm x 152 mm) post sleeves are designed to fit over 4x4 pressure-treated post.

** Required ONLY for All Clear Span Applications over 6’ (1.83 m) when smaller fixed baluster is fully centered, or unsupported spans greater than 5’ (1.52 m) (example: 8’ (2.44 m) span cut into one 5’ (1.52 m) span and one 3’ (0.91 m) span) would require foot block under 5’ (1.52 m) span since smaller fixed baluster is no longer centered. Included with 8’ (2.44 m) railing kits.

**NOTE:** If installing 42” (1067 mm) railing, and using pressure-treated posts with Trex post sleeves, ensure that a longer pressure-treated post is used along with longer post sleeve, both cut to a height of 46” (1168 mm) from decking surface.

---

**NOTE:** MUST USE TREX DECK MOUNT POST HARDWARE AND METAL PLATE WHEN ATTACHING REVEAL POSTS.
**BRACKET HARDWARE - HORIZONTAL APPLICATIONS**
**(INCLUDING HORIZONTAL SWIVEL BRACKETS)**
**TREX REVEAL**

### HORIZONTAL RAILING HARDWARE

| AA. Lower rail bracket |
| BB. Lower rail bracket cover |
| CC. Upper rail bracket cover |
| DD. Upper rail bracket |

### FOOT BLOCK COMPONENTS

| EE. Foot block base |
| FF. Foot block support |

### HORIZONTAL SWIVEL HARDWARE

| GG. Swivel base |
| HH. Horizontal swivel bracket top rail |
| II. Horizontal swivel bracket top rail cover |
| JJ. Horizontal swivel bracket bottom rail cover |
| KK. Horizontal swivel bracket bottom rail |
| LL. Swivel base cover |

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**NOTE:** Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
**Location and Installation of Posts**

**IMPORTANT NOTES:**

» **EACH POST MUST BE ATTACHED AS DETAILED AS DESCRIBED TO ENSURE A CODE COMPLIANT AND SAFE INSTALLATION.**

» **ALWAYS REFER TO YOUR LOCAL BUILDING CODE OFFICIAL PRIOR TO INSTALLING ANY RAILING SYSTEM TO ENSURE ALL CODE AND SAFETY REQUIREMENTS ARE MET. TREX® CANNOT BE HELD RESPONSIBLE FOR IMPROPER OR NON-RECOMMENDED INSTALLATIONS.**

» **WHEN INSTALLING REVEAL POSTS ON ACQ OR CCA SURFACES, USE AN APPROPRIATE ISOLATION BARRIER BETWEEN POST AND SURFACE (CONTACT LOCAL BUILDING CODE OFFICIAL IF NEEDED).**

» **FOR INSTALLING STANDARD REVEAL POST AND/OR REVEAL CROSSOVER POSTS, SEE BELOW.**

» **FOR PRESSURE-TREATED POSTS, POST SLEEVES, AND SKIRTS, SEE DETAILED INSTRUCTIONS PROVIDED WITH REVEAL RAILING KITS.**

» **ALL REVEAL STAIR INSTALLATIONS REQUIRE THE USE OF 53” (1346 MM) STAIR POST, MEASURED AND CUT TO APPROPRIATE LENGTH IF NECESSARY.**

» **IF CROSSOVER STAIR POST IS REQUIRED, USE STAIR POST (AGAIN CUT TO APPROPRIATE LENGTH IF NECESSARY) AND USE SWIVEL CROSSOVER BRACKET.**

**Tools and Materials Needed**

» Drill and/or screw gun

» 1/2” (127 mm) drill bit for wood

» Blocking - 2" x 8” (51 mm x 203 mm) pressure-treated Southern Yellow Pine or equivalent

» Qty 36 (per post) - 3” (76 mm) pressure-treated compatible wood screws

**Code Approved Post Applications**

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**Installing Standard Reveal Posts and/or Reveal Crossover Posts on Pressure-Treated Wood Framing**

**Corner Post Installation**

1. Install 2” x 8” (51 mm x 203 mm) cross bracing frame in between joists at 7 1/4” (184 mm). Attach a total of twelve 3” (76 mm) pressure-treated compatible screws (not provided).

2. Install two 2” x 8” (51 mm x 203 mm) boards as blocking under post location. Securely attach blocking using a total of twenty-four 3” (76 mm) pressure-treated compatible screws (not provided).

**NOTE:** TO ENSURE THE BLOCKING IS FULLY SECURE, USE THE AMOUNT OF SCREWS SHOWN ABOVE.

**TIP:** USE TWO ADDITIONAL SCREWS TO “SANDWICH” BLOCKING BOARDS TOGETHER FOR EASIER ATTACHMENT TO FRAMING.

**NOTE:** Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
3. Install two 2” x 8” (51 mm x 203 mm) cross bracing frames in between joists at 7-1/4” (184 mm). Attach a total of twelve 3” (76 mm) pressure-treated compatible screws (not provided).

4. Install two 2” x 8” (51 mm x 203 mm) boards as blocking under post location. Securely attach blocking using a total of twenty-four 3” (76 mm) pressure-treated compatible screws (not provided).

5. NOTE: RIM JOIST REMOVED TO SHOW PROPER ATTACHMENT OF HARDWARE.

NOTE: METAL BACKPLATE IS ONLY REQUIRED FOR 2-1/2” (64 MM) POST.

Level posts if necessary using stainless steel leveling shims (provided). Ensure that post is placed on decking surface so that it clears the rim joist and there is enough clearance on the underside blocking for the back plate to be installed.

Attach posts using four 3/8” x 6” (10 mm x 152 mm) hex cap bolts, washers, and nuts, along with using aluminum back plate on underside of blocking (back plate only required for 2-1/2” (64 mm) posts). This back plate MUST be installed under the decking to ensure this will meet code compliance. Reference SKU part number ALPOSTHWDECK for required hardware and aluminum plate.

Installing Pressure-treated Posts, Post Sleeves, and Skirts
6. Attach posts using 1/2” (13 mm) carriage bolts.
   » Minimum joist size is 2” x 8” (51 mm x 203 mm).
   » Top bolts must be 1” (25 mm) from top of joists.
   » Bottom bolts must be 5-1/8” (130 mm) from top bolts.

NOTE: Blocking can be added for extra strength.

7. Slide post sleeve skirt over post and down to rest on decking surface. Slide post sleeve over post and position inside post sleeve skirt.

NOTE: Shims can be used to plumb post sleeves.

IMPORTANT NOTE:
» IF INSTALLING 42” (1067 MM) RAILING AND USING PRESSURE-TREATED POSTS WITH TREX POST SLEEVES, ENSURE THAT A LONGER PRESSURE-TREATED POST IS USED ALONG WITH LONGER POST SLEEVE, BOTH CUT TO A HEIGHT OF 46” (1168 MM) FROM DECKING SURFACE.
**HOW TO INSTALL HORIZONTAL RAILING**

**TREX REVEAL**

**Attach Brackets Using Reveal Posts**

**TIP:** Use a clamp to help hold brackets in place while fastening with screws.

1a. When using 2" (51 mm) post, for both post-to-post and post-to-crossover post configurations, measure 1-1/2" (38 mm) up from top of post base plate (or 1-7/8" (48 mm) from decking surface). Mark with light line.

1b. When using 2-1/2" (64 mm) post, measure 1-3/8" (35 mm) from top of post base plate or 1-7/8" (48 mm) from decking surface. Mark with light line.

2. Center lower bracket on post **above** the marked line and attach using two self-tapping screws (**provided**).

3. Measure up 32-5/8" (829 mm) for 36" (914 mm) tall railing or 38-5/8" (981 mm) for 42" (1067 mm) tall railing from top of lower rail bracket. Mark with a light line.

4. Center upper bracket on post **below** marked line and attach using three self-tapping screws (**provided**).

**NOTE:** Upper bracket is not required on crossover post configuration.

**Attach Brackets Using Pressure Treated Posts and Post Sleeves**

**TIP:** Use a clamp to help hold brackets in place while fastening with screws.

5. Measure 1-7/8" (48 mm) up from deck surface to bottom of bracket. Slide skirt up to allow for proper measurement, then push skirt back down onto surface of decking **BEFORE ATTACHING BRACKET**. Mark with light line.

6. Center lower bracket on post **above** the marked line and attach using two 2" (51 mm) wood screws (**provided**).

7. Measure up 32-5/8" (829 mm) for 36" (914 mm) tall railing or 38-5/8" (981 mm) for 42" (1067 mm) tall railing from top of lower rail bracket. Mark with a light line.

8. Center upper bracket on post **below** marked line and attach using three 2" (51 mm) wood screws (**provided**).

**NOTE:** Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
HOW TO INSTALL HORIZONTAL RAILING / CONTINUED
TREX REVEAL

How to Measure and Cut Bottom and Top Railings (WHEN REQUIRED)

1. Position bottom and top rails between posts and align with bottom bracket. Align the center baluster slot in both rails with the middle of the span between posts. This will allow an equal number of baluster holes on each side of center slot. Mark bottom rail and top rail at each end (ensure both rails are centered between posts).

* In some cases due to odd railing spans, the center baluster may need to be offset in one direction to ensure there is enough room at both post locations for balusters to be placed. Review this BEFORE cutting any railings to ensure all balusters are equally spaced.

Cutting Bottom Rail and Bottom Rail Cover

2. Cut each end of bottom rail 1/4" (6 mm) shorter than mark on each end to allow for fit into bottom rail brackets.

TIP: CUT ALUMINUM WITH A NON-FERROUS METAL BLADE.
**HOW TO INSTALL HORIZONTAL RAILING/CONTINUED**

**Cutting Top Rail**

**Option 1:**
For Post-to-Post Configuration

5a. Cut each end of top rail 1/4" (6 mm) shorter than mark to allow for fit into top rail brackets.

**Cutting Top Rail**

**Option 2:**
For Post-to-Crossover-Post Configuration

5b. Top rail must be cut differently on each side of the rail. Railing side that attaches to standard post should be cut 1/4" (6 mm) shorter than the mark to allow for fit into top rail bracket. Railing side that attaches to the crossover post should be cut 3/4" (19 mm) **LONGER** than the mark to allow for fit into the crossover post bracket.

**Cutting Top Rail**

**Option 3:**
For Crossover-Post-to-Crossover-Post Configuration

5c. Cut each end of top rail 3/4" (19 mm) **LONGER** than the mark to allow for fit into the crossover post bracket on each side.

**Cutting Top Rail Insert and Cover**

6. Slide rail insert out and cut 3/4" (19 mm) **FROM EACH SIDE** of insert, then slide back inside rail and center.

7. Mark and cut top rail cover same length as top rail for all top rail configurations.

---

**NOTE:** Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
Attaching Center Baluster to Bottom Rail

8. Attach shorter, center baluster in center slot in bottom rail using two #8 x 1-1/4” (32 mm) screws (provided).

Attaching Bottom Rail Cover and Bottom Rail to Brackets

9. Attach “flat” bottom rail cover to bottom rail by first centering cover on bottom rail (this will allow gap on each end of bottom rail for placement into brackets). Align cover on one side of bottom rail in slot on side of rail. Then starting from one end of rail snap cover onto opposing slot working down the length of rail. In some cases, a rubber mallet may facilitate the fastening using GENTLE tapping.

10. Set bottom rail into bottom brackets. Tabs on brackets will be inside of bottom rail (not shown when railing is attached). To ensure fit into tab, measure and mark 1/2" (13 mm) out from side of post.

11. Attach bottom rail to bottom bracket by fastening through marked measurement on top of rail into tab on bottom bracket using one self-tapping screw each side (provided).

NOTE: Pre-drilling is recommended (7/64” [2.8 mm] drill bit) for attachment of railing to bracket.

Installing Remaining Balusters into Bottom Rail

12. Place remaining balusters into holes in lower rail by snapping fully into place. In some cases, a rubber mallet may facilitate the fastening using GENTLE tapping.
Attach Upper Railings

13. Working from one end of upper rail, snap balusters into upper rail working down length of rail. Fasten center baluster into center slot using two #8 x 1-1/4” (32 mm) screws (provided).

14. For post-to-post configuration, fasten upper rail to each bracket by installing screws diagonally through upper rail into bracket using two self-tapping screws each side (provided).

NOTE: Pre-drilling is recommended (7/64” [2.8 mm] drill bit) for attachment of railing to post.

15. For crossover post configuration, fasten upper rail to crossover post by installing screws diagonally through upper rail into post using two self-tapping screws each side (provided).

NOTE: Pre-drilling is recommended (7/64” [2.8 mm] drill bit) for attachment of railing to post.

16. Attach “crowned” upper rail cover to upper rail by aligning cover on one side of rail. Then starting from one end of rail, snap cover onto opposing slot working down length of rail. A rubber mallet may facilitate the fastening using GENTLE tapping.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
Attachment of Bracket Covers, Skirts, and Caps

17. Attach corresponding bracket covers over opening in upper and bottom rails.
18. Attach provided post skirt to bottom of posts when using Reveal posts.

19. Attach post caps to Reveal posts (use of rubber mallet may be required for secure attachment).
20. Attach post caps to post sleeves using external grade PVC construction adhesive.
21. For crossover post configuration, attach crossover post cap to crossover post.
HOW TO INSTALL HORIZONTAL SWIVEL BRACKETS

ATTACH SWIVEL BRACKET BASE USING REVEAL POSTS

TIP: Use a clamp to help hold brackets in place while fastening with screws.

1a. When using 2" (51 mm) post, for both post-to-post and post-to-crossover post configurations, measure 1-1/2" (38 mm) up from top of post base plate (or 1-7/8" [48 mm] from decking surface). Mark with light line.

1b. When using 2.5" (64 mm) post, measure 1-3/8" (35 mm) from top of post base plate (or 1-7/8" [48 mm] from decking surface). Mark with light line.

2. Center lower bracket on post above the marked line and attach using four self-tapping screws (provided).

3. Measure up 32-5/16" (821 mm) for 36" (914 mm) tall railing or 38-5/16" (973 mm) for 42" (1067 mm) tall railing from top of lower rail bracket. Mark with a light line.

4. Center upper bracket on post below marked line and attach using four self-tapping screws (provided).

NOTE: Upper bracket is not required on crossover post configuration.

ATTACH BRACKETS USING PRESSURE TREATED POSTS AND POST SLEEVES

TIP: Use a clamp to help hold brackets in place while fastening with screws.

5. Measure 1-7/8" (48 mm) up from deck surface to bottom of bracket. Slide skirt up to allow for proper measurement, then push skirt back down onto surface of decking BEFORE ATTACHING BRACKET. Mark with light line.

6. Center lower bracket on post above the marked line and attach using four 2" (51 mm) wood screws (provided).

7. Measure up 32-5/16" (821 mm) for 36" (914 mm) tall railing or 38-5/16" (973 mm) for 42" (1067 mm) tall railing from top of lower rail bracket. Mark with a light line.

8. Center upper bracket on post below marked line and attach using four 2" (51 mm) wood screws (provided).
How to Install Horizontal Swivel Railing

**NOTES:**

- WHEN USING REVEAL HORIZONTAL SWIVEL BRACKETS BOTH BOTTOM AND TOP RAILS WILL NEED TO BE MEASURED AND CUT TO APPROPRIATE LENGTHS.
- HORIZONTAL SWIVEL BRACKETS CAN BE USED UP TO A 50° ANGLE FOR REVEAL RAILINGS.
- WHEN USING HORIZONTAL SWIVEL BRACKETS VERY IMPORTANT TO LAY OUT LOCATION AND ORIENTATION OF POSTS AND SWIVEL BRACKETS BEFORE INSTALLING SWIVEL BRACKETS.
- WHEN RAILINGS ARE CUT TO ODD SPANS, ALL SPANS GREATER THAN 5’ (1.52 m) (EXAMPLE: 8’ (2.44 m) SPAN CUT INTO ONE 5’ (1.52 m) SPAN AND ONE 3’ (0.91 m) SPAN) WOULD REQUIRE FOOT BLOCK UNDER 5’ (1.52 m) SPAN SINCE SMALLER FIXED BALUSTER IS NO LONGER CENTERED.

How to Measure and Cut Bottom and Top Railings

1. With brackets in correct swivel location, measure distance from inside of bracket to inside of bracket. ENSURE THAT BEFORE CUTTING, BALUSTERS HOLES ON BOTH BOTTOM AND TOP RAIL LINE UP. ALSO MAKE SURE CENTER BALUSTER SLOT IS AS CLOSE TO THE MIDDLE OF THE SPAN AS POSSIBLE. In some cases due to odd railing spans, the center baluster may need to be offset in one or the other direction to ensure there is enough room at both post locations for balusters to be placed.

2. Cut bottom rail to the measurement between the bottom swivel brackets

3. Slide rail insert out and cut 3/4” (19 mm) FROM EACH SIDE of insert, then slide back inside rail and center.

4. Mark and cut bottom rail cover 1-1/2” (38 mm) shorter than bottom rail.

**NOTE:** Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
HOW TO INSTALL HORIZONTAL SWIVEL RAILING/CONTINUED

REVEAL

Cutting Top Rail
Option 1:
For Post-to-Post Configuration

5a. Cut top rail to the measurement between the top swivel brackets. For standard-post-to-standard-post configurations this would be same dimensions as that of the bottom rail.

Cutting Top Rail
Option 2:
For Post-to-Crossover-Post Configuration

5b. When going from standard-post-to-crossover-post, measurement must be taken from inside of top horizontal swivel bracket to inside lip of crossover bracket (which is attached to top of crossover post).

Cutting Top Rail Insert and Cover

6. Slide rail insert out and cut 3/4" (19 mm) FROM EACH SIDE of insert, then slide back inside rail and center.
7. Mark and cut top rail cover same length as top rail for all top rail configurations.

8. Attaching Center Baluster to Bottom Rail
See instructions on page 61.

9. Attaching Bottom Rail Cover and Bottom Rail to Brackets
See instructions on page 61.

10. Installing Remaining Balusters into Bottom Rail
See instructions on page 61.

11. Attach Upper Railings
See instructions on page 62.

12. Attachment of Bracket Covers, Skirts, and Caps
See instructions on page 63.

13. Attachment of Foot Block (Required ONLY for All Clear Span Applications Over 6’ [1.83 m])
See instructions on page 67.
Attachment of Foot Block (Required ONLY for All Clear Span Applications Over 6’ [1.83 m])

1. To ensure correct location, place foot block under center of bottom rail. Mark to provide placement location of base.

2. Place base (smaller side facing down) on decking surface. Attach base of foot block using one screw at an angle through base and into decking.

NOTE: Pre-drilling is recommended (1/8” [3 mm] drill bit) for attachment of base.

3. After attached, use a rubber mallet along with scrap piece of wood to tap foot block until it locks into place.
BRACKET HARDWARE - STAIR APPLICATIONS
(INCLUDING STAIR SWIVEL BRACKETS, STAIR CROSSOVER BRACKET, AND COMPOUND SWIVEL BRACKETS)
TREX REVEAL

**FIXED BRACKET - STAIR HARDWARE**

AA. Bottom stair bracket and cover – Lower rail
BB. Top stair bracket and cover – Lower rail
CC. Fastener pack
DD. Bottom stair bracket and cover – Upper rail
EE. Top stair bracket and cover – Upper rail

**SWIVEL BRACKET - STAIR HARDWARE**

FF. Swivel top rail bracket and cover – Stair
GG. Swivel bottom rail bracket and cover – Stair
HH. Fastener covers
II. Fastener pack

*NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.*
BRACKET HARDWARE - STAIR APPLICATIONS
(INCLUDING STAIR SWIVEL BRACKETS, STAIR CROSSOVER BRACKET, AND COMPOUND SWIVEL BRACKETS)/CONTINUED
TREX REVEAL

COMPOUND SWIVEL BRACKET - STAIR HARDWARE

JJ. Compound swivel top rail bracket and cover – Stair
KK. Compound swivel bottom rail bracket and cover – Stair
LL. Fastener covers
MM. Fastener pack

SWIVEL CROSSOVER BRACKET KIT - STAIR HARDWARE

NN. Swivel crossover bracket – Stair
OO. Post-to-Bracket fasteners
IMPORTANT NOTES:
» ALL REVEAL STAIR INSTALLATIONS REQUIRE THE USE OF 53” (1346 MM) STAIR POST, MEASURED AND CUT TO APPROPRIATE LENGTH IF REQUIRED.
» IF CROSSOVER STAIR POST IS REQUIRED, USE STAIR POST (AGAIN CUT TO APPROPRIATE LENGTH IF REQUIRED) AND USE SWIVEL CROSSOVER BRACKET.
» REVEAL STAIR FIXED BRACKETS ARE DESIGNED TO WORK ONLY WITH STAIR SLOPES OF 32°-37°.
» FOR SMALLER (LESS THAN 32°) OR LARGER ANGLES (GREATER THAN 37°) USE THE REVEAL STAIR SWIVEL BRACKETS.
» REVEAL COMPOUND SWIVEL STAIR BRACKETS ARE DESIGNED FOR FLARED STAIR DESIGNS.
» IF INSTALLING STAIR RAILINGS AT EXACT SPAN LENGTHS OF 6’ (1.8 M) OR 8’ (2.4 M) AND USING POST TO POST CONFIGURATION, THE BOTTOM STAIR RAIL WILL NOT NEED TO BE CUT*, BUT THE TOP STAIR RAIL WILL NEED TO BE MEASURED (MAKING SURE BALUSTERS LINE UP VERTICALLY) AND CUT.
» IF INSTALLING STAIR RAILINGS AT EXACT SPAN LENGTHS OF 6’ (1.8 M) OR 8’ (2.4 M), AND USING CROSSOVER POST CONFIGURATION (SPANS FROM ONE CROSSOVER POST TO ANOTHER CROSSOVER POST), BOTH THE BOTTOM AND TOP STAIR RAILS WILL NOT NEED TO BE CUT* IF THE ANGLE IS APPROXIMATELY 34°.
» AT ALL FINAL END POST CONFIGURATIONS, TOP STAIR RAIL WILL NEED TO BE MEASURED (MAKING SURE BALUSTERS LINE UP VERTICALLY) AND CUT.
» FOR ODD SPAN LENGTHS, BOTH BOTTOM AND TOP STAIR RAILS WILL NEED TO BE MEASURED (MAKING SURE BALUSTERS LINE UP VERTICALLY) AND CUT. ALSO ENSURE THAT BALUSTERS ARE SPACED WITH EQUAL DISTANCE ON EACH SIDE OF THE POST.

* Rails that do not require cutting must be oriented in the correct direction to ensure balusters are spaced properly when installed in brackets. On both bottom and top stair railings, baluster hole closest to the end of the each stair rail is to be installed at the top of the stair section. Ensure that both bottom and top rails are correct and balusters line up vertically before installing.

Installing Standard Reveal Stair Posts, Reveal Stair Crossover Posts, or Pressure-treated Post, Post Sleeves, and Skirts

1. Make sure 53” (1356 mm) posts are used for all stair posts.

2. If Reveal stair posts are used, install at nose of stair tread directly under required blocking. See Reveal horizontal post instructions on page 57 for details.

3. If pressure-treated post/post sleeves are used, posts are to be installed to the inside of the last stair stringer (rails must be over decking surface). See pressure-treated post instructions on page 57 for details.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
NOTES:
» All Reveal fixed stair brackets work ONLY with stair slopes of 32°-37°.
» Illustrations shown are representations when using Reveal post, but same rules apply if using pressure-treated posts and post sleeves.
» Use a clamp to help hold stair brackets in place while fastening with screws.
» IMPORTANT NOTE: BEFORE ATTACHING ANY UPPER BRACKETS MAKE SURE PROPER RAILING HEIGHTS ARE ACHIEVED. RAILING HEIGHTS AND UPPER BRACKET HEIGHTS MAY NEED TO BE ADJUSTED, HOWEVER, DO NOT REDUCE HEIGHTS BASED ON YOUR RAILING CODE REQUIREMENTS. MEASURE CAREFULLY as dimension heights may need to be adjusted!

1. Lay bottom stair rail on steps beside posts. Position bottom rail at least 1” (25 mm) above nose of stair tread.

TIP: Use a 1” (25 mm) deck board as a spacer board and clamp rails to post. Mark where lower brackets are to be attached to both posts. Mark at underside of railing location.

2. Center lower stair bracket on post above the marked line and attach using two self-tapping screws (provided). In some cases it may be difficult to attach the stair bracket on the lower stair post. Recommend using a 90° cordless drill in this area if possible to attach screws.

3. Center lower stair swivel bracket on post above the marked line and attach using four self-tapping screws (provided). In some cases it may be difficult to attach the stair bracket on the lower stair post. Recommend using a 90° cordless drill in this area if possible to attach screws.
ATTACHING STAIR BRACKETS (FIXED STAIR, STAIR SWIVEL, AND COMPOUND SWIVEL) TO REVEAL POSTS AND PRESSURE-TREATED POSTS AND POST SLEEVES/CONTINUOUS
TREX REVEAL

Installing Upper Fixed Stair Brackets

4. Measure up required dimension for 36” (914 mm) tall railing or 42” (1067 mm) tall railing, from top of lower stair rail fixed bracket. Mark with light line.

5. Center upper stair fixed bracket on post below the marked line and attach using two self-tapping screws (provided).

Installing Upper Stair Swivel And Compound Swivel Brackets

6. Measure up required dimension for 36” (914 mm) tall railing or for 42” (1067 mm) tall railing, from top of lower stair rail swivel bracket. Mark with light line.

1a. Position bottom stair rail along the nose of the stair treads. Ensure that before cutting, balusters holes are centered in between the posts and also allow for clearance for attachment to brackets. Mark bottom stair rail at each intersection.

7. Center upper stair swivel bracket on post below the marked line and attach using four self-tapping screws (provided).

NOTE: Upper bracket is not required on crossover post configurations.

How to Measure Bottom Stair Railings (WHEN REQUIRED)

When Using Fixed Stair Brackets:

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
ATTACHING STAIR BRACKETS (FIXED STAIR, STAIR SWIVEL, AND COMPOUND SWIVEL) TO REVEAL POSTS AND PRESSURE-TREATED POSTS AND POST SLEEVES/CONTINUED

1b. With brackets in correct swivel locations, measure distance from inside of swivel bracket to inside of swivel bracket. Ensure that before cutting, balusters holes are parallel and centered in between the posts and also allow for clearance for attachment to brackets. Mark bottom stair rail at each intersection.

Cutting Bottom Stair Rail, Bottom Stair Rail Cover, and Attachment of Bottom Stair Rail Cover

2a. Cut each end of the bottom stair rail, rail insert, and bottom rail cover 1/4” (6 mm) shorter than the mark on each end to allow for fit into bottom stair rail brackets.

NOTE: Railing does not need to be cut at angle. Brackets are designed to allow for railing to be installed with standard straight cut.

When using Stair Swivel and Compound Swivel Brackets:

When using Stair Swivel or Compound Swivel Brackets:

2b. Cut each end of the bottom rail, rail insert, and bottom rail cover at the mark on each end to allow for fit into bottom stair rail brackets.

NOTE: Railing does not need to be cut at angle. Brackets are designed to allow for railing to be installed with standard straight cut.

Attachment of Bottom Stair Rail Cover and Bottom Stair Rail to Brackets

3. Attach “flat” bottom stair rail cover to bottom stair rail. Align cover on one side of the bottom rail in slot on side of rail. Then starting from one end of rail snap cover onto opposing slot working down the length of the rail. In some cases, a rubber mallet may facilitate the fastening using GENTLE tapping.
ATTACHING STAIR BRACKETS (FIXED STAIR, STAIR SWIVEL, AND COMPOUND SWIVEL) TO REVEAL POSTS AND PRESSURE-TREATED POSTS AND POST SLEEVES CONTINUED

4. Set bottom stair rail into bottom stair rail brackets. Attach bottom stair rail to bottom stair bracket using two self-tapping screws (provided) on each side of bracket.

How to Measure Top Stair Railings (WHEN REQUIRED):

IMPORTANT NOTE: BEFORE CUTTING ANY TOP RAILS MAKE SURE THAT WHEN MEASURING ALL BALUSTER HOLES LINE UP PARALLEL!

When Using Fixed Stair Brackets:
5a. Place two balusters into lower rail at each end closest to post.

5b. Position top rail onto balusters (position to side of post) and ENSURE that balusters are parallel with post. Mark top stair rail at each intersection.

When using Stair Swivel and Compound Swivel Brackets:
5c. Place two balusters into lower rail at each end closest to post.

5d. Position top rail onto balusters (position to side of post) and ENSURE that balusters are parallel with post. With brackets in correct swivel location, measure distance from inside of swivel bracket to inside of swivel bracket. Mark top stair rail at each intersection.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
ATTACHING STAIR BRACKETS (FIXED STAIR, STAIR SWIVEL, AND COMPOUND SWIVEL) TO REVEAL POSTS AND PRESSURE-TREATED POSTS AND POST SLEEVES/CONTINUED
TREX REVEAL

Attaching Stair Crossover Swivel Bracket to Post

6. Insert stair crossover swivel bracket into post.

NOTE: Keep the bracket cover on when inserting this into post, this will cover the screw attachment area.

7. Determine location/height of the stair crossover swivel bracket by aligning the angle of this with the fixed brackets (or compound swivel brackets) already installed.

8. Once location/height is determined, center and pre-drill two holes (using a drill bit slightly smaller than that of self-tapping screw diameter) on opposite sides of post, approx. 1/4” (6 mm) from top of post. Drill through the post and into the stair crossover swivel bracket on each side.

9. Attach stair crossover swivel bracket to post with two self-tapping screws (provided). Slide cover over post to hide screws.
ATTACHING STAIR BRACKETS (FIXED STAIR, STAIR SWIVEL, AND COMPOUND SWIVEL) TO REVEAL POSTS AND PRESSURE-TREATED POSTS AND POST SLEEVES/CONTINUED

TREX REVEAL

Cutting Top Stair Rail and Rail Insert Option 1: For Stair-Post-to-Stair-Post Configuration

When Using Fixed Stair Brackets:

10a. Cut each end of top stair rail along with rail insert 1/4" (6 mm) shorter than mark to allow for fit into top stair rail bracket.

NOTE: Railing does not need to be cut at angle. Brackets are designed to allow for railing to be installed with standard straight cut.

When using Upper Stair Swivel and Compound Swivel Brackets:

10b. Cut top rail along with rail insert to the measurement between the top stair swivel brackets. For standard-post-to-standard-post configurations, this would be same dimensions as that of the bottom stair rail.

Cutting Top Stair Rail and Insert Option 2: For Stair-Post-to-Stair-Crossover-Post Configuration

When Using Fixed Stair Brackets:

11a. Top stair rail along with rail insert must be cut differently on each side of the rail. Railing side that attaches to standard post should be cut 1/4" (6 mm) shorter than the mark to allow for fit into top rail bracket. Railing side that attaches to the crossover post should be cut directly on the mark to allow for fit into the crossover post bracket.

When using Upper Stair Swivel and Stair Crossover Swivel Brackets:

11b. When going from standard-stair-post-to-stair-crossover-post, measurement must be taken from inside of top horizontal stair swivel bracket to inside lip of stair crossover bracket (crossover post will need to be modified to have swivel crossover bracket installed).

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
ATTACHING STAIR BRACKETS (FIXED STAIR, STAIR SWIVEL, AND COMPOUND SWIVEL) TO REVEAL POSTS AND PRESSURE-TREATED POSTS AND POST SLEEVES/CONTINUED
TREX REVEAL

Cutting Top Stair Rail and Rail Insert
Option 3:
For Stair-Crossover-Post-to-Stair-Crossover-Post Configuration

12a.

12a. Cut each end of the top stair rail along with rail insert on the mark line to allow for fit into the crossover post bracket on each side.

Cutting Top Stair Rail Cover, and Attachment of Top Stair Rail Cover
13.

13. Mark and cut top rail cover same length as top rail for all top rail configurations.

14.

14. Attach “crowned” upper stair rail cover to upper stair rail by aligning cover on one side of rail. Then starting from one end of stair rail, snap cover onto opposing slot working down length of stair rail. A rubber mallet may facilitate the fastening using GENTLE tapping.

Installing Balusters into Bottom Stair Rail
15.

15. Place balusters into holes in lower stair rail by snapping fully into place. In some cases, a rubber mallet may facilitate the fastening using GENTLE tapping.
ATTACHING STAIR BRACKETS (FIXED STAIR, STAIR SWIVEL, AND COMPOUND SWIVEL) TO REVEAL POSTS AND PRESSURE-TREATED POSTS AND POST SLEEVES/CONTINUED

TREX REVEAL

Attaching Upper Stair Rails
16. Working from one end of upper stair rail, snap balusters into upper stair rail working down length of rail.

17a. For stair post-to-post configuration, attach top stair rail to top stair bracket (all types) using two self-tapping screws (provided) on each side of stair bracket.

17b. For stair crossover post configuration, fasten upper stair rail to swivel crossover post bracket by installing screws diagonally through crossover stair bracket into upper rail using two self-tapping screws (provided) on each side.

Attachment of Stair Bracket Covers, Skirts, and Caps
18. Attach corresponding bracket covers over opening in upper and bottom rails.
19. Attach provided post skirt to bottom of posts when using Reveal posts.

20. Attach post caps to Reveal posts (use of rubber mallet may be required for secure attachment).

NOTE: Pre-drilling is recommended (7/64” [2.8 mm] drill bit) for attachment of stair railing to stair bracket.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
1. Measure opening between posts.
2. Subtract 1-7/8" (48 mm) from above measurement. This will allow for proper gapping and location of gate.

3. Identify top and bottom of panel.

**NOTE:** The posts only fit one direction.

4. Lay panel on a flat non-marring surface. Place posts on top of panel. Place posts so that width measurement from Step 2 is to the outside of each post.

5. Adjust posts so that cut marks do not fall on a baluster. Make sure distance from first baluster to post is the same on both sides. Mark cut locations on panel.

**NOTE:** If widths do fall on a baluster, cut baluster flush at top and bottom prior to cutting panel.

6. Cut panel use a reciprocating saw (equipped with a metal blade).

7. Insert posts into panel.

**NOTE:** Make sure top and bottom of panel orientation is correct.
8. Secure posts to panel with four #8-18 short self-tapping screws (provided) in each location.
9. Attach shorter side of hinge to the gate.

**NOTE:** Refer to instructions included in hardware package. Be sure to use correct fasteners for aluminum. See chart below.

**NOTE:** Both wood and aluminum screws are included in hardware kit. (Refer to chart under Step 9.)

**MINIMUM FASTENER SIZE**

<table>
<thead>
<tr>
<th>Type</th>
<th>Length</th>
<th>No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wood Screw</td>
<td>2-1/2” (64 mm)</td>
<td>#9</td>
</tr>
<tr>
<td>Metal Screw</td>
<td>2” (51 mm)</td>
<td>#8-18</td>
</tr>
</tbody>
</table>

**NOTE:** Use of non-Trex hardware is not recommended and could result in serious injury or death.

10. Place gate in opening on blocks. Sweep between bottom of gate and top of deck cannot exceed 4” (102 mm) per IRC/IBC code regulations. Ensure bottom gate posts will be high enough to clear skirts on bottom of deck posts.
11. Make sure posts are plumb and gate is level. Attach longer side of hinges to post using appropriate hardware for type of post installed. Install hinge cover.

12. After determining location and height of hinge and hasp, install per instructions included with hardware kit.
13. Ensure proper operation of gate. Hinge tension is adjustable (check hardware kit instructions for more detail).
14. After gate installation, place blocks under gate for support. Use a rubber mallet to install cap onto gate post. Repeat for other gate post cap. Snap all hinge covers into place.

**NOTE:** Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
PARTS

A. Select top rail
B. Select bottom rail
C. Select brackets
D. Select bracket covers
E. Select balusters
F. Adjustable foot block
G. Post sleeve cap*
H. Post sleeve skirt*
I. Post sleeve - 4" x 4" (102 mm x 102 mm) or 6" x 6" (152 mm x 152 mm) post sleeve)**
J. Trex decking
K. TrexTrim™ or Trex fascia
L. Code-approved wood joist - 2" x 8" (51 mm x 203 mm)
M. Code-approved wood rim joist - 2" x 8" (51 mm x 203 mm) or larger

** DETERMINING BALUSTERS NEEDED

<table>
<thead>
<tr>
<th>Baluster Type</th>
<th>Per 6' OC Section</th>
<th>Per 8' OC Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>(Horizontal Application)</td>
<td>13</td>
<td>18</td>
</tr>
<tr>
<td>(Stair Application)</td>
<td>11</td>
<td>15</td>
</tr>
</tbody>
</table>

* Item not included in the Select railing kits.
** Both 4" x 4" (102 mm x 102 mm) and 6" x 6" (152 mm x 152 mm) post sleeves are designed to fit over 4x4 pressure-treated post.

NOTE: If installing 42" (1067 mm) railing, use longer posts sleeves and measure accordingly to ensure a proper cut (DO NOT CUT POST SLEEVES TO ACTUAL 42" – THESE NEED TO BE LONGER TO ALLOW FOR POST CAPS TO FIT).

NOTE: Pictorial representations shown may only show one style of railing, while others may also be used. Review detailed instructions to determine what railing styles and combinations can be used.
Read all instructions BEFORE installation.

Important: Post sleeves are NOT to be cut for this design style.

Installing Pressure-Treated Posts
- Select Railing Kits are designed for posts to be installed at maximum of 6’ or 8’ (1.8 m or 2.4 m) ON CENTER depending on the length being used. (Note: Smaller spans are allowed).
- Attach posts using 1/2” (13 mm) carriage bolts.
- Minimum joist size is 2” x 8” (51 mm x 203 mm).
- Top bolts must be 1” (25 mm) from tops of joists.
- Bottom bolts must be 5-1/8” (130 mm) from top bolts.

NOTE: Blocking MUST be added for extra strength.

Installing Post Sleeve Skirts and Post Sleeves
2. Slide post sleeve skirt over post and down to rest on decking surface. Slide post sleeve over post and position inside post sleeve skirt.

NOTE: Shims can be used to plumb post sleeves.

Cutting Railings
3a. Position bottom and top rails between posts, ensuring baluster holes are lined up and spaced evenly.
3b. Also allow for a minimum of 1-9/16” (40 mm) on each end of rail for bracket placement AND baluster clearance. Mark rails at intersection of rail and post.
3c. Cut each end of both bottom and top rails 1/4” (6 mm) shorter than mark on each end to allow for fit into brackets.

NOTE: After cutting, this still allows enough space for bracket placement.

Attaching Foot Block to Bottom Railing
NOTE: REFER TO DETAILED INSTRUCTIONS INCLUDED WITH FOOT BLOCK PRIOR TO INSTALLATION OF RAILING SECTION AS THESE INCLUDE OTHER REQUIRED STEPS FOR PROPER INSTALLATION

4. Invert the bottom railing. Center foot block on bottom rail and attach. DO NOT extend foot block.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
Assembling Railing Section

5a. On clean flat surface lay bottom railing on its side. Make sure to allow enough room for installation of balusters and top rail. Place a scrap piece of 1” (25 mm) decking board running parallel to bottom rail for support when installing balusters.

5b. Insert balusters into bottom rail slots as far as they will go, allowing the balusters to also rest on the decking board.

6b. Slide brackets on each end of both top and bottom railing.

6c. Lift secured railing section up. and CENTER this section in between the spanned posts on pre-positioned support blocks.

NOTE: To help stabilize railing section, use a quick-grip clamp (or other type of clamp) and clamp the first baluster to post sleeve. (DO NOT OVERTIGHTEN CLAMP.)

5c. Attach top rail to balusters, feeding each baluster into required slots. Start on one end and work towards the other.

5d. To help temporarily secure the railing section together, place a ratchet strap around the top and bottom rail and tighten until snug. DO NOT OVERTIGHTEN AS YOU CAN BEND THE RAILING.

Installing Railing Section to Posts

6a. Using scrap material (i.e. 2x4s, decking boards, etc.) cut at least three support blocks at 3-3/4” (95 mm) in height. Place one each on decking surface beside each post and one near center of span.

6d. Install bottom bracket (both sides) to post using four #8-10 x 2” (51 mm) screws per bracket (provided).

6e. Install top bracket (both sides) to post using four #8-10 x 2” (51 mm) screws per bracket (provided).

6f. Install bottom bracket (both sides) to railing using four #10 x 1” (25 mm) screws per bracket (provided).

6g. Install top bracket (both sides) to railing using four #10 x 1” (25 mm) screws per bracket (provided).
Attaching Bracket Covers and Post Caps

7a. Snap bracket covers over each bracket.
7b. Secure post caps with silicone or PVC adhesive.

**NOTE:** Clean up any excess adhesive before drying.
HOW TO INSTALL 45° ADAPTOR - HORIZONTAL APPLICATIONS ONLY

TREX SELECT

Read all instructions BEFORE installation.

PARTS

1. Measure, cut, and assemble railing sections as per instructions listed on pages 82-84.

2. Locate placement of railing section so that this lines up with horizontal railing heights.

3. Install 45° angle bracket onto post using provided hardware.

4. Install foot block to bottom railing as stated in previous instructions. See page 82.

5. Assemble railing section as stated in previous instructions. See page 83.

6. Install railing section to post as stated in previous instructions. See page 83. However use longer screws that were provided with adaptor to attach brackets thru adaptor into posts.

7. Install brackets to railing as stated in previous instructions. See page 83.

8. Attach bracket covers and post caps as stated in previous instructions. See page 84.
HOW TO INSTALL TREX SELECT STAIR RAILING

TREX SELECT

Read all instructions BEFORE installation.

**NOTE:** All Select railings work **ONLY WITH STAIR SLOPES OF 32°-37°**.

Installing Posts, Post Sleeve Skirts, and Post Sleeves for Stair Rails
1. Install posts, post sleeve skirts, and post sleeves according to standard Select railing instructions.
   - In most cases, a post and post sleeve longer than 39” (991 mm) will be needed on the lower section of stair rail to accommodate stair angle.
   - Make sure top and bottom posts for stairs are installed at nose of each tread.

Measuring and Cutting Railings

2. Set bottom stair railing along the nose of the stair treads, ensuring the baluster holes are spaced evenly. Also allow for a minimum of 1-9/16" (40 mm) on each end of rail for bracket placement AND baluster clearance. Use clamp to hold bottom stair rail in place.
3. Place two balusters into lower rail at each end closest to post.

4. Position top rail onto balusters and ENSURE that balusters are parallel with post. Mark both bottom and top stair rail at each intersection. Mark the side of each railing to ensure that proper angle is cut for attachment.
5. Cut each end of both bottom and top stair rails 1/4" (6 mm) shorter than mark on each end to allow for fit into bottom rail brackets.

**NOTE:** Top rail is shown inverted.

Cutting Balusters on Angle (OPTIONAL)
6a. In order for balusters to seat properly (depending on the angle of the stair railing), the balusters may need to be trimmed to match the angle of the bottom and top railing.
6b. Set bottom railing on nose of stair treads and set baluster at 90° on the outside of the railing, mark and measure the angle.

**NOTE:** Measure, mark, and cut a scrap board to ensure you have proper angle **BEFORE** cutting balusters on angle.

**NOTE:** Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
HOW TO INSTALL TREX SELECT STAIR RAILING/CONTINUED
TREX SELECT

6c. Cut the VERY END of baluster, both top and bottom, making sure that point to point measurement of the baluster remains at either 32” (813 mm) for 36” (914 mm) rail heights or 38” (965 mm) for 42” (1067 mm) rail heights.

**ATTACHING FOOT BLOCK TO BOTTOM RAILING**

7a. For stair applications, cut the section of foot block at an angle to match rail. Refer to foot block instructions for specific information on how to do this.

7b. Place scrap deck board at nose of stair tread, and place foot block on top of scrap board near the nose of the tread. Position bottom stair rail on stair tread and mark the underside of the bottom stair rail for location of foot block.

7c. Invert bottom rail. Center foot block on bottom rail and attach at marked position. DO NOT extend foot block.

8a. Slide bottom stair brackets on bottom rail on each side. Top bracket must have tab on bracket facing up. Bottom bracket must have tab facing down.

8b. Assemble a few of the balusters into the bottom and top railings (make sure balusters are setting at 90°) and set this on scrap material clearing the stair treads to determine where bracket locations need to be. Remember in most cases, a post and post sleeve longer than 39” (991 mm) will be needed on the lower section of stair rail to accommodate stair angle.

8c. After locating appropriate position for railing section, remove top rail and balusters and attach bottom stair bracket (both sides) to post using four #8-10 x 2” (51 mm) screws per bracket (provided). Foot block can be extended at this time.
HOW TO INSTALL TREX SELECT STAIR RAILING/CONTINUED

TREX SELECT

Install Balusters
9. Slide balusters into bottom rail.

Attachment of Top Rail to Post
10a. Slide top stair brackets on top rail on each side. Top bracket must have tab on bracket facing up. Bottom bracket must have tab facing down.

10b. Place top rail onto balusters, allowing the top rail to rest on the surface of the balusters.
10c. Attach top stair bracket (both sides) to post using four #8-10 x 2” (51 mm) screws per bracket (provided).

Attachment of Bottom and Top Brackets to Rails
11a. Install bottom stair bracket (both sides) to railing using four #10 x 1” (25 mm) screws per bracket (provided).
11b. Install top stair bracket (both sides) to railing using four #10 x 1” (25 mm) screws per bracket (provided).

Attaching Bracket Covers and Post Caps
12a. Snap bracket covers over top rail bracket.
12b. Snap bracket covers over bottom rail bracket.
12c. Secure post caps with silicone or PVC adhesive.

NOTE: Clean-up any excess adhesive before drying.

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
ADA Handrail Guidelines

1. ADA handrails can be installed using various design applications such as those for stairs, ramps, and horizontal applications. Designs include options for straight and 90° wall returns, 90° corners, and adjustable angles. Choose which is best for your needs before installing. (Refer to railing profile page for more detailed parts list.)

6. The maximum recommended span between supports is 6’ (1.83 m) on center. Thus placement of posts is critical when installation of railing is being considered.*

7. Rails are designed to have a tight fit into other connecting components. It is critical to line these up in the correct orientation BEFORE connecting parts together. If it is necessary to shift or move a component on a rail, wrap with a protective cloth to prevent scratching as you may need to use a wide-mouth wrench to correct this.

8. At any straight location where internal connector is used, it is CRITICAL to locate these as close to a wall mount as possible.

9. If using metal posts, pre-drill all locations for bracket attachment. (ALWAYS use a drill bit slightly SMALLER in diameter than the screw being used for attachment.)

10. All elbow components can be cut down to allow for tighter angles. Cut a maximum of 2” (51 mm) on each side if this is required.

*Refer to the American Disabilities Act for detailed information in regards to handrail requirements.

SAFETY NOTES

» When cutting metal, always wear proper safety eyewear (as well as any other proper safety wear).
» Remove all burrs from cut ends before installation.
» Use of a non-ferrous metal blade is recommended.
## ADA Railing Profiles

<table>
<thead>
<tr>
<th>Description</th>
<th>Color</th>
</tr>
</thead>
<tbody>
<tr>
<td>ADA Hand Rail 1.385” (35 mm) diameter</td>
<td>BK, BZ, WT</td>
</tr>
<tr>
<td>ADA Wall Return</td>
<td>BK, BZ, WT</td>
</tr>
<tr>
<td>ADA Wall Mount</td>
<td>BK, BZ, WT</td>
</tr>
<tr>
<td>ADA Corner Mount*</td>
<td>BK, BZ, WT</td>
</tr>
<tr>
<td>ADA Internal Connector</td>
<td></td>
</tr>
<tr>
<td>ADA Handrail Return</td>
<td>BK, BZ, WT</td>
</tr>
</tbody>
</table>

*Can only be used with metal post horizontal applications.*

## Hardware

### Rail to Bracket Attachment
- Short Metal Screw (#10 x 5/8” [16 mm])

### Bracket to Metal Post Attachment
- Long Metal Screw (#12 x 1-1/4” [32 mm])

### Bracket to Wood Post/Post Sleeve Attachment
- Wood Screw (8-10 x 2” [51 mm])

**NOTE:** If attaching brackets to 6x6 posts/post sleeves, use 8-10 x 2-1/2” (64 mm) wood screws (not included).

**COLORS:**  
- BK Charcoal Black  
- BZ Bronze  
- WT White

**NOTE:** Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
**Wall Mount**

1. If required, cut railing to proper length based on location of wall mount(s) or attachment to other components.
2. Attach wall mount to post using specific hardware provided (see chart on previous page). **ENSURING** wall mount is at proper angle of alignment to angle of rail. If using metal posts, pre-drill post prior to attachment of wall mount.

**NOTE:** Refer to Rail-to-Rail Connections section if connecting two or more rails together to make continuous straight run.

---

**Rail-to-Rail Connections/Internal Connector**

1. If required, cut railing to proper length.
2. If desired, collar ring can be used to hide seam between rails. Slide this over rail BEFORE inserting rails into internal connector.
3. Slide internal connector into rail end until metal spacer screw is touching either end of rail or the collar, if this was used.
4. Slide second rail over opposite end of internal connector, until this is touching metal spacer screw.
5. Remove metal spacer screw using #2 square head screwdriver.
6. Push second rail further over internal connector until this fits in the collar (if used) or fits tightly against rail.
7. Attach wall mount to post per previous instructions.
8. Attach rail to wall mount per previous instructions.
9. Use end caps where required.

**NOTE:** When rail-to-rail straight connections are use for longer spans, posts must be installed 6" OC max. In addition, a wall mount MUST be used at each seam of rail-to-rail connections as close to center of wall mount as possible. If collar is used, this can be offset slightly to allow for the collar to fit.
HOW TO INSTALL TREX ALEX'MY'M ARA COMPLIANT HANPRAIL

1. If required, cut railing to proper length based on location of elbows and other components being used.
2. If desired, collar ring can be used to hide seam of elbow to rail. Slide this over rail BEFORE inserting rail into elbow.
3. Slide internal connector into rail end until metal spacer screw is touching either end of rail or the collar, if this was used.
4. Slide appropriate angled elbow onto opposite end of internal connector, until this is touching metal spacer screw.
5. Remove metal spacer screw using #2 square head screwdriver.
6. Push elbow further over internal connector until this fits in the collar (if used) or fits tightly against rail.
7. Attach wall mount to post per previous instructions.
8. Attach rail to wall mount per previous instructions.

Handrail return 180°

NOTE: Ramp application shown here (For stair applications appropriate angle elbow also required.)

1. If required, cut railing to proper length based on location of elbow used as well and other components being used.
2. If desired, collar ring can be used to hide seam of handrail return to rail or elbow being used. Slide this over rail BEFORE inserting rail into other component.
3. Ensure that all components are aligned to both wall mount on post as well as location of elbow on rail BEFORE attachment.
4. Slide internal connector into appropriate elbow being until metal spacer screw is touching either end of elbow or the collar, if this was used.

4. Attach wall return to lower end of handrail return (longer side). ENSURING wall return is at proper angle of alignment to post. (Wall return is designed to have tight fit into rail, thus location of attachment is critical.)
5. Slide opposite end of handrail return onto internal connector, until this is touching metal spacer screw.
6. Remove metal spacer screw using #2 square head screwdriver.
7. Push handrail return further over internal connector until this fits in the collar (if used) or fits tightly against elbow.
8. Attach wall return to post per previous instructions.
9. Attach rail to wall mount per previous instructions.
10. Use end caps where required.

Corner Mount

1. Corner mount can ONLY BE USED ON METAL POSTS and only for horizontal applications, such as stair landings.
2. Pre-drill metal post and install corner post to metal post using using specific hardware provided (see chart on previous page).
3. If desired, collar ring can be used to hide seam of elbow to rail. Slide this over rail BEFORE inserting rail into elbow (not shown in picture above).
4. Slide internal connector into rail end until metal spacer screw is touching either end of rail or the collar, if this was used.
5. Slide appropriate angled elbow onto opposite end of internal connector, until this is touching metal spacer screw.
6. Push elbow further over internal connector until this fits in the collar (if used) or fits tightly against rail.
7. Install elbow to corner mount using using specific hardware provided (see chart on previous page).

NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
WARRANTIES
For the term set forth below, Trex Company, Inc. (hereinafter “Trex”) warrants to the original end-user purchaser (the “Purchaser”) that Trex Transcend® decking, porch or fascia, Trex Enhance® decking or fascia, Trex Select® decking or fascia or Trex® Universal Fascia, as the case may be (the “Product”) will perform, under normal use and service conditions, as follows:

Term of Warranty: The term of this warranty shall begin on the date of original purchase, and shall end (1) twenty-five (25) years thereafter for a residential application of the Product, and (2) ten (10) years thereafter for a commercial application of the Product.

Residential/Commercial Application: For purposes of this warranty, a “residential application” shall refer to an installation of the Product on an individual residence, and a “commercial application” shall refer to any installation of the Product other than on an individual residence.

Fade Resistance: The Product shall not fade in color from light and weathering exposure as measured by color change of more than 5 Delta E (C/E) units.

The Product is designed to resist fading. No material is fade proof when exposed to years of UV exposure and the elements. The Product is designed to resist fading, and will not in any event fade by more than 5 Delta E (C/E) units.

Stain Resistance: The Product shall be resistant to permanent staining resulting from spills of food and beverage items including ketchup, mustard, salad oils, tea, wine, coffee, fruit punch, barbecue sauce, grease, sodas and other food and beverage related items that would typically be present on a residential deck, or mold and mildew naturally occurring in the environment, provided that such substances are removed from the Product with soap and water or mild household cleaners within one (1) week of exposure of the food or beverage to the surface or first appearance of the mold and mildew.

Notwithstanding the foregoing, Trex does not warrant that the Product is stain-proof, and does not warrant stain resistance resulting from spilled or otherwise applied food and beverage substances which are not properly cleaned as provided above within one (1) week of exposure. In addition, materials not covered in the stain resistant warranty include abrasive compounds of acidic or basic pH, paints or stains, strong solvents, metallic rust or other abnormal deck use items, and non-food and non-beverage substances, including but not limited to, biocides, fungicides, plant food, or bactericides. Mold and mildew can settle and grow on any outdoor surface, including this Product. You should periodically clean your deck to remove dirt and pollen that can feed mold and mildew. This warranty does not cover mold and mildew which is not properly cleaned as provided above within one (1) week of first appearance.

Standard Trex Company Limited Warranty: This warranty is in addition to the standard Trex Company Limited Warranty that applies to all Trex products.

Transferability: With respect to a residential application, this warranty may be transferred one (1) time, within the five (5) year period beginning from the date of original purchase by the Purchaser, to a subsequent buyer of the property upon which the Trex products were originally installed. With respect to a commercial application, this warranty is freely transferable to subsequent buyers of the property upon which the Trex products were originally installed.

EXCLUSIONS FROM WARRANTY COVERAGE:

Exposure to Heat: Direct or indirect contact with extreme heat sources (over 275 degrees) may cause fading and may damage the surface of the Product, and any effects of such exposure are expressly excluded from coverage under this warranty.

Surface Damage: Never use metal shovels or sharp-edged tools to remove snow and ice on the surface of the Product. If the surface of the Product is damaged or punctured, this warranty will be voided.

Paint or Other Materials Applied to the Product: If paint or other coating materials are applied to the Product, this warranty will be voided.

Railing: This warranty does not cover Trex Transcend® or Trex Select® railing components.

Other Exclusions: This warranty shall not cover any condition attributable to: (1) improper installation of the Product and/or failure to abide by Trex’s installation guidelines, including but not limited to, improper gapping; (2) use of the Product beyond normal use or service conditions, or in an application not recommended by Trex’s guidelines and local building codes; (3) movement, distortion, collapse or settling of the ground or the supporting structure on which the Product is installed; (4) any act of God such as flooding, hurricane, earthquake, lightning, etc.; (5) improper handling, storage, abuse or neglect of the Product by Purchaser, the transferee or third parties; (6) any fading or staining not on the walking surface of the Product (i.e., the underside or the ends of the Product); or (7) ordinary wear and tear.
Procedure for Making a Claim under this Warranty

in order to make a claim under this warranty, Purchaser must do the following:

1. if the Purchaser is making a claim relating to the warranty on stain resistance, Purchaser must do as follows:

   (a) Purchaser must try to clean the affected area of the deck by using the cleaning procedures described above within one (1) week of exposure of the food or beverage to the Product or first appearance of the mold and mildew.

   (b) If the affected area remains reasonably unsatisfactory after Purchaser has tried these cleaning procedures, then Purchaser must have the affected area of the deck professionally cleaned at Purchaser’s expense.

   (c) If the affected area remains reasonably unsatisfactory after the professional cleaning, Purchaser may make a claim under this warranty, provided that such claim is made within thirty (30) days after the professional cleaning.

2. To make a claim under this limited warranty, Purchaser, or the transferee, shall send to Trex, within the warranty period referred to above, a description and photographs of the affected area of the Product, proof of purchase, and if the claim relates to the warranty on stain resistance, proof of compliance with paragraph 1. above, to the following address:

   Trex Company, Inc.
   Customer Relations
   160 Exeter Drive
   Winchester, VA 22603-8605

3. Upon confirmation by an authorized Trex representative of a valid claim hereunder, Trex’s sole responsibility shall be, at its option, to either replace the affected item or refund the portion of the purchase price paid by Purchaser for such affected item (not including the cost of its initial installation). Replacement material will be provided that is as close as possible in color, design and quality as the replaced material, but Trex does not guarantee an exact match as colors and design may change.

4. If a valid warranty claim hereunder is made during years eleven (11) through twenty-five (25) after the original purchase for a residential application, recovery will be prorated. If Trex is providing replacement materials, it may elect to replace the percentage listed below of boards otherwise meeting the requirements for a claim, or if it is refunding the purchase price, it may elect to refund the percentage listed below of the purchase price of boards otherwise meeting the requirements for a claim.

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<tr>
<th>YEAR OF WARRANTY CLAIM</th>
<th>PERCENTAGE RECOVERY</th>
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</table>

5. THIS WARRANTY SHALL NOT COVER AND TREX SHALL NOT BE RESPONSIBLE FOR COSTS AND EXPENSES INCURRED WITH RESPECT TO THE REMOVAL OF AFFECTED PRODUCT OR THE INSTALLATION OF REPLACEMENT MATERIALS, INCLUDING BUT NOT LIMITED TO LABOR AND FREIGHT.

UNDER NO CIRCUMSTANCES WILL TREX BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER SUCH DAMAGES ARE SOUGHT IN CONTRACT, IN TORT (INCLUDING BUT NOT LIMITED TO NEGLIGENCE AND STRICT LIABILITY) OR OTHERWISE, AND TREX’S LIABILITY WITH RESPECT TO PRODUCTS SHALL IN NO EVENT EXCEED THE REPLACEMENT OF SUCH PRODUCTS OR REFUND OF THE PURCHASE PRICE, AS DESCRIBED ABOVE.

Some States or Provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from State to State or Province to Province.

Copyright © 2015 Trex Company, Inc.
**TREX® LIMITED WARRANTY**

Trex Company, Inc. (hereinafter “Trex”) warrants to the original purchaser (“Purchaser”) that, for the period of time set forth in the following sentence, under normal use and service conditions, Trex® products shall be free from material defects in workmanship and materials, and shall not split, splinter, rot or suffer structural damage from termites or fungal decay. The term of such warranty shall be twenty-five (25) years from the date of original purchase for a residential application, and ten (10) years from the date of original purchase for a commercial application. If a defect occurs within the warranty period, Purchaser shall notify Trex in writing and, upon confirmation by an authorized Trex representative of the defect, Trex’s sole responsibility shall be, at its option, to either replace the defective item or refund the portion of the purchase price paid by Purchaser for such defective item (not including the cost of its initial installation).

Notwithstanding the foregoing, (a) the term of the warranty for the LED lights and housing for Trex® DeckLighting™ shall be seven (7) years, the term of the warranty for the LED lights and housing for Trex® Landscape Lighting™ shall be five (5) years, and the term of the warranty for the dimmer, timer and transformer for both shall be three (3) years, in each case provided that a Trex transformer is used (with no warranty on any components if a Trex transformer is not used), and any other parts or accessories shall not be warranted; (b) with respect to hardware for the Trex Surroundings® gate (gate frame, hinges and screws), the term of the warranty shall be five (5) years. (c) with respect to Trex Decorative Balusters, the term of the warranty covering the paint coating shall be ten (10) years, and shall be prorated in the following manner: 100% replacement for the first five (5) years; and 50% replacement for the next five (5) years, and (d) this warranty shall not apply to Trex Elevations® steel deck framing, Trex Reveal® aluminum railing and TrexTrim™ (which each have separate warranties).

For purposes of this warranty, a “residential application” shall refer to an installation of the Product on an individual residence, and a “commercial application” shall refer to any installation of the Product other than on an individual residence.

**THIS WARRANTY SHALL NOT COVER AND TREX SHALL NOT BE RESPONSIBLE FOR COSTS AND EXPENSES INCURRED WITH RESPECT TO THE REMOVAL OF DEFECTIVE TREX PRODUCTS OR THE INSTALLATION OF REPLACEMENT MATERIALS, INCLUDING BUT NOT LIMITED TO LABOR AND FREIGHT.**

With respect to a residential application, this warranty may be transferred one (1) time, within the five (5) year period beginning from the date of original purchase by the Purchaser, to a subsequent buyer of the property upon which the Trex products were originally installed. With respect to a commercial application, this warranty is freely transferable to subsequent buyers of the property upon which the Trex products were originally installed.

To make a claim under this limited warranty, Purchaser, or the transferee, shall send to Trex, within the warranty period referred to above, a description of the claimed defect and proof of purchase, to the following address:

Trex Company, Inc.  
Customer Relations  
160 Exeter Drive  
Winchester, VA 22603-8605

Trex does not warrant against and is not responsible for, and no implied warranty shall be deemed to cover, any condition attributable to: (1) improper installation of Trex products and/or failure to abide by Trex’s installation guidelines, including but not limited to improper gapping; (2) use of Trex products beyond normal use and service conditions, or in an application not recommended by Trex's guidelines and local building codes; (3) movement, distortion, collapse or settling of the ground or the supporting structure on which Trex products are installed; (4) any act of God (such as flooding, hurricane, earthquake, lightning, etc.), environmental condition (such as air pollution, mold, mildew, etc.), staining from foreign substances (such as dirt, grease, oil, etc.), or normal weathering (defined as exposure to sunlight, weather and atmosphere which will cause any colored surface to gradually fade, chalk, or accumulate dirt or stains); (5) variations or changes in color of Trex products; (6) improper handling, storage, abuse or neglect of Trex products by Purchaser, the transferee or third parties; or (7) ordinary wear and tear.

No person or entity is authorized by Trex to make and Trex shall not be bound by any statement or representation as to the quality or performance of Trex products other than as contained in this warranty. This warranty may not be altered or amended except in a written instrument signed by Trex and Purchaser.

**UNDER NO CIRCUMSTANCES WILL TREX BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER SUCH DAMAGES ARE SOUGHT IN CONTRACT, IN TORT (INCLUDING BUT NOT LIMITED TO NEGLIGENCE AND STRICT LIABILITY) OR OTHERWISE, AND TREX’S LIABILITY WITH RESPECT TO DEFECTIVE PRODUCTS SHALL IN NO EVENT EXCEED THE REPLACEMENT OF SUCH PRODUCTS OR REFUND OF THE PURCHASE PRICE, AS DESCRIBED ABOVE.**

Some States or Provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from State to State or Province to Province.

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TREX REVEAL® RAILING LIMITED WARRANTY

Trex Company, Inc. (hereinafter “Trex”) warrants to the original purchaser (“Purchaser”) that, under normal use and service conditions, Trex Reveal® Railing (the “Product”) shall, for a period of twenty-five (25) years from the date of original purchase, be free from material defects in workmanship and materials. If a defect occurs within the warranty period, Purchaser shall notify Trex in writing and, upon confirmation by an authorized Trex representative of the defect, Trex’s sole responsibility shall be, at its option, to either replace the defective Product or refund the portion of the purchase price paid by Purchaser for such defective Product (not including the cost of its initial installation).

With respect to installations where the atmosphere is influenced by a body of salt water (or other contaminant conditions), failure to adhere to the cleaning guidelines available at www.trex.com will void this warranty with respect to any condition resulting from such failure.

THIS WARRANTY SHALL NOT COVER AND TREX SHALL NOT BE RESPONSIBLE FOR COSTS AND EXPENSES INCURRED WITH RESPECT TO THE REMOVAL OF DEFECTIVE PRODUCT OR THE INSTALLATION OF REPLACEMENT MATERIALS, INCLUDING BUT NOT LIMITED TO LABOR AND FREIGHT.

This warranty may be transferred one (1) time, within the five (5) year period beginning from the date of original purchase by the Purchaser, to a subsequent buyer of the property upon which the Product was originally installed.

To make a claim under this limited warranty, Purchaser, or the transferee, shall send to Trex, within the warranty period referred to above, a description of the claimed defect and proof of purchase, to the following address:

Trex Company, Inc.
Customer Relations
160 Exeter Drive
Winchester, VA 22603-8605

Trex does not warrant against and is not responsible for, and no implied warranty shall be deemed to cover, any condition attributable to: (1) improper installation of the Product; (2) use of the Product beyond normal use and service conditions, or in an application not recommended by Trex’s guidelines and local building codes; (3) movement, distortion, collapse or settling of the ground or the supporting structure on which the Product is installed; (4) damages attributable to fire, violent storms, earthquake or other Acts of God, accidents, vandalism, or other casualties, impact of objects, or exposure to atmospheric pollutants or conditions other than natural weather processes, (5) improper handling, storage, abuse or neglect of the Product by Purchaser, the transferee or third parties; or (6) ordinary wear and tear.

No person or entity is authorized by Trex to make and Trex shall not be bound by any statement or representation as to the quality or performance of Trex products other than as contained in this warranty. This warranty may not be altered or amended except in a written instrument signed by Trex and Purchaser.

UNDER NO CIRCUMSTANCES WILL TREX BE LIABLE FOR SPECIAL, INCIDENTAL OR CONSEQUENTIAL DAMAGES, WHETHER SUCH DAMAGES ARE SOUGHT IN CONTRACT, IN TORT (INCLUDING BUT NOT LIMITED TO NEGLIGENCE AND STRICT LIABILITY) OR OTHERWISE, AND TREX’S LIABILITY WITH RESPECT TO DEFECTIVE PRODUCTS SHALL IN NO EVENT EXCEED THE REPLACEMENT OF SUCH PRODUCTS OR REFUND OF THE PURCHASE PRICE, AS DESCRIBED ABOVE.

Some States or Provinces do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights that vary from State to State or Province to Province.

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NOTE: Construction methods are always improving. Please refer to www.trex.com for the most up-to-date installation requirements.
### Decking & Railing Color Palette

#### Trex Transcend® Decking

<table>
<thead>
<tr>
<th><strong>Best</strong></th>
<th><strong>Better</strong></th>
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</thead>
<tbody>
<tr>
<td><strong>Premium Tropical Colors</strong></td>
<td><strong>Classic Earth Tones</strong></td>
</tr>
<tr>
<td>Havana Gold</td>
<td>Fire Pit</td>
</tr>
<tr>
<td>Island Mist</td>
<td>Gravel Path</td>
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<tr>
<td>Beach Dune</td>
<td>Clam Shell</td>
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<tr>
<td>Saddle</td>
<td>Madeira</td>
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<tr>
<td>Lava Rock</td>
<td>Rope Swing</td>
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<tr>
<td>Spiced Rum</td>
<td>Tree House</td>
</tr>
<tr>
<td>Tiki Torch</td>
<td>Vintage Lantern</td>
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<tr>
<td>Woodland Brown</td>
<td>Winchester Grey</td>
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#### Trex Select® Decking

**Good**

<table>
<thead>
<tr>
<th>Madeira</th>
<th>Pebble Grey</th>
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<tbody>
<tr>
<td>Saddle</td>
<td>Winchester Grey</td>
</tr>
</tbody>
</table>

#### Trex Transcend Railing

- Charcoal Black
- Classic White
- Fire Pit
- Gravel Path
- Rope Swing
- Tree House
- Vintage Lantern

#### Select Railing

- Classic White

#### Trex Reveal® Aluminum Railing

- Charcoal Black
- Bronze
- Classic White

#### Trex Outdoorlighting™

- Charcoal Black
- Bronze
- Classic White
decking: Transcend Havana Gold
railing: Reveal in Bronze

Framing | decking | railing | Lighting | Fascia | Storage | Furniture | Pergola | Drainage

FIND US ON

Visit trex.com or call 1-800-BUY-TREX

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