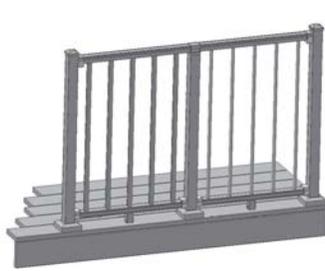
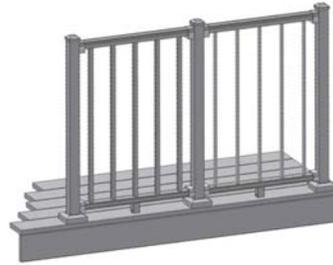


# Trex<sup>®</sup> Reveal<sup>™</sup> Railing Installation Instructions



**Crossover Post Configuration**



**Post to Post Configuration**

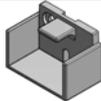
## Parts List

- Reveal Post - 36" or 42" applications (Actual post lengths are 37" or 43")
- Reveal "Crossover" Post - 36" or 42" applications (Actual post lengths are 36" or 42")
- Reveal Stair Post - Both 36" **AND** 42" stair applications (Actual post length is 53")
- Reveal Upper Rail - 6' (Actual length 73.5") or 8' (Actual length 97.5")
- Reveal Lower Rail - 6' (Actual length 71.5") or 8' (Actual length 95.5")
- Reveal Balusters (Square or Round)

- Reveal Upper Rail Bracket



- Reveal Lower Rail Bracket



- Reveal Top Stair Bracket Bottom Rail



- Reveal Bottom Stair Bracket Bottom Rail



- Reveal Top Stair Bracket Upper Rail



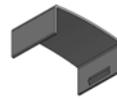
- Reveal Bottom Stair Bracket Upper Rail



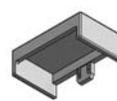
- Reveal Swivel Base



- Reveal Upper Rail Bracket Cover



- Reveal Lower Rail Bracket Cover



- Reveal Top Stair Bracket Cover Bottom Rail



- Reveal Bottom Stair Bracket Cover Bottom Rail



- Reveal Top Stair Bracket Cover Upper Rail



- Reveal Bottom Stair Bracket Cover Upper Rail



- Reveal Swivel Base Cover



- Reveal Horizontal Swivel Bracket Top Rail  Reveal Horizontal Swivel Bracket Cover Top Rail 
- Reveal Horizontal Swivel Bracket Bottom Rail (uses Reveal Lower Rail Bracket Cover as shown above) 
- Reveal Vertical Swivel Bracket Top Rail  Reveal Vertical Swivel Bracket Cover Top Rail 
- Reveal Vertical Swivel Bracket Bottom Rail  Reveal Vertical Swivel Bracket Cover Bottom Rail 
- Reveal Swivel Compound Angle 
- Reveal Crossover Bracket Cover 
- Reveal Footblock Components (Base and Support) 

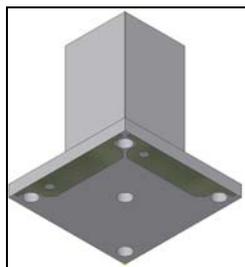
**NOTE: REVEAL RAILINGS ARE DESIGNED TO BE INSTALLED WITH POSTS INSTALLED AT CLEAR SPAN OF 6' OR 8'**

### **Tools Needed**

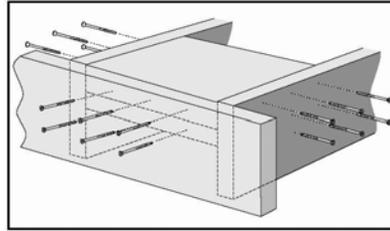
- Drill and/or screw gun
- #2 square head bit
- 1/8 drill bit (for use when pre-drilling railing to attach to bracket)
- Non-ferrous metal miter saw blade
- Ratchet/Wrench
- Rubber Mallet

### **Installing Standard Post and Crossover Posts:**

1. Attach posts using required hardware. Level posts using aluminum leveling shims (provided).



2. For concrete installations fasten aluminum post to concrete using (4) 3/8" x 3" or longer concrete anchors (anchors not provided)
3. For wood surface installation, install at least two 2" x 8" (5.1 cm x 20.3 cm) boards as blocking under post location. Securely attach blocking using wood screws, penetrating blocking a minimum of 1-1/2" (3.8 cm).



4. Fasten aluminum post to decking using (4) 5/16" x 4" or longer stainless steel lags (lags not provided).

### **Attaching Brackets:**

1. For both post to post and post to crossover post configurations, attach bottom bracket to post by measuring 1 7/8" up from deck surface to bottom of bracket. Attach using 2 self-tapping screws (provided).
2. For post to post configuration, attach upper bracket by measuring up 32 5/8" (for 36" tall railing) or 38 5/8" (for 42" tall railing) from the upper of the bottom bracket to the top of the upper bracket. Keeping brackets centered on post, fasten to the post with 3 self-tapping screws (provided). *NOTE: upper bracket is not required for crossover post configuration.*

### **Measure, Cut, and Attach Bottom Railings – Post to Post and Crossover Post Installation:**

1. Position bottom rail between posts and align with bottom bracket. Note that the center slot should be in the middle of the span between posts. This will allow an equal number of baluster holes to be on each side of the center slot. Mark rail at each end while centered and cut to length by cutting each end 1/4" shorter than the mark to allow for fit into the bottom rail brackets. Also cut the bottom rail cover (flat cover) 3/4" shorter (1 1/2" overall) on each end than bottom rail length.

*NOTE: If posts are installed at full span of 6' or 8', bottom rail and cover will NOT need to be cut.*

*NOTE: When measuring bottom rail, if there is not enough clearance for balusters on either side of post; offset the center slot until baluster spacing is at equal distance on each side of the post. IF THIS IS REQUIRED, ALSO ADJUST THE UPPER RAIL SO THE CENTER BALUSTER WILL BE VERTICALLY ALIGNED.*

2. Attach the shorter, center baluster to center slot in bottom rail using (2) #8 x 1 1/4" screws (provided).

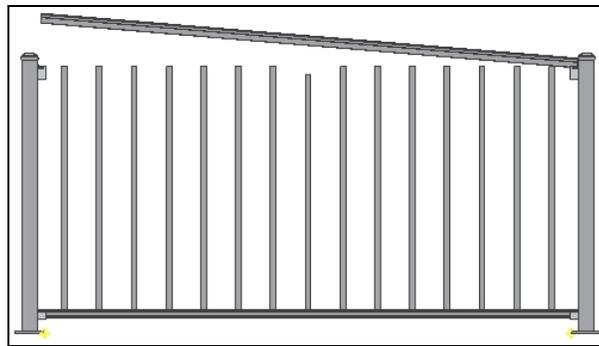


*Figure above showing center baluster attachment  
(Not true representation of baluster height)*

3. Attach bottom rail cover to bottom rail by aligning cover on one side of the bottom rail in the slot on the side of the rail. Then starting from one end of the rail snap the cover onto the opposing slot working down the length of the rail.
4. Attach bottom rail to bottom bracket by fastening through the top of the rail into the tab on the bottom bracket using 1 self-tapping screw each side (provided).  
*NOTE: Pre-drilling is recommended for attachment of railing to bracket.*
5. Place the remaining balusters into the holes in the lower rail by snapping fully into place.

### **Measure, Cut, and Attach Upper Railings – Post to Post Installation:**

1. Align upper rail between upper rail brackets by flipping rail upside down so that center baluster slot is in the middle of the posts. This will insure an equal amount of baluster holes on each side of slot. Mark each end of upper rail at brackets and cut rail to length.
2. Working from one end of upper rail snap balusters into place working down the length of the rail.



3. Fasten center baluster into the center slot using the provided (2) #8 x 1 ¼” screws (provided).
4. Fasten upper rail to each bracket by screwing through upper rail into bracket using 2 self-tapping screws each side (provided).  
*NOTE: Pre-drilling is recommended for attachment of railing to bracket.*  
*NOTE: If center baluster was offset when installing lower rail, align upper rail accordingly.*
5. Attach the “crowned” upper rail cover to the upper rail by aligning the cover on one side of the rail. Then starting from one end for the rail snap the cover onto the opposing slot working down the length of the rail. A **rubber mallet** may facilitate the fastening using **GENTLE** tapping.

### **Measure, Cut, and Attach Upper Railings – Crossover Post Installation:**

1. For crossover post configuration (continued run using crossover posts), make upper rail end spacing exactly 1” longer on each end connecting to the cross-over posts. In other words, the crossover upper rail will be exactly 2” longer than the bottom rail. If using crossover post to a standard post, the end will be 1” longer than the bottom rail.  
*NOTE: If posts are installed at full span of 6’ or 8’, crossover upper rail and cover will NOT need to be cut for continuous run using crossover posts.*
2. Follow steps 2 and 3 above for baluster attachment.
3. Fasten crossover upper rail to bracket and to crossover post by screwing through upper rail into bracket and crossover post using 2 self-tapping screws each side (provided).  
*NOTE: Pre-drilling is recommended for attachment of railing to bracket.*

### **Attachment of Bracket Covers, Skirts, and Caps:**

1. Attach corresponding bracket covers over the opening in the upper and bottom rails.
2. Attach provided post skirt to the bottom of the posts.
3. Attach post caps to standard posts (use of **rubber mallet** may be required for secure attachment).

### **Attachment of Footblock (Required ONLY for All Clear Span Applications Over 6'):**

1. Attach foot block under the center of the bottom rail. Begin by attaching the base of the footblock by screwing the angled screw into the base and into the decking. After attached, slide the footblock onto the base until it locks into place.

### **Stair Railing Installation:**

#### **NOTES:**

- **All Reveal stair installations require the use of 53" stair post, measured and cut to appropriate length.**
  - **If crossover stair post is required, use stair post (again cut to appropriate length) and use swivel crossover bracket.**
1. Identify top and bottom stair rails.
  2. Lay bottom rail on steps beside posts with even spacing between baluster holes at each end of posts. Mark rails at posts for cutting. Cut rails 1/4" shorter than the mark on each end.
  3. Position bottom rail 1" above the nose of the steps (use a 1" spacer) and mark where the brackets are to be attached to the post. Attach bracket with self tapping screws (provided).
  4. Measure and if required, cut balusters so that required stair height is achieved. If cutting balusters at an angle, measure angle of stairs and cut each end of the balusters at the same angle as top and bottom rails were cut, making sure the overall length of the balusters does not change.
  5. Insert balusters into bottom rail so balusters are fully seated into bottom rail. **GENTLE** tapping with a rubber mallet may assist insertion.
  6. Insert balusters into the top rail by starting at the top end and working towards the bottom of stairs.
  7. Ensure that top rail is fully seated onto balusters, then attach top stair bracket to post based on this location. Attach top stair rail to post using self-tapping screws (provided).
  8. Attach stair rail to brackets by inserting the self tapping screws (provided) in the side of the brackets. Lightly tap bracket covers onto the bracket. Use caution when installing brackets by applying pressure directly on top of the bracket tab.
  9. Attach skirts to the bottom of posts.

### **Crossover Stairs:**

1. For crossover stairs, angle top crossover unit to match the angle of the stair and cut accordingly.
2. All other steps are the same as above.

### **Swivel Stair Mount:**

1. Lay bottom rail (with approximately 1" clearance from the nose of the steps) beside the posts. Determine where the baluster holes will be on each end and place a baluster in those holes. Place top rail on these balusters. Holding rails against posts, determine end spacing making sure end spacing is even between the post and balusters. Hold swivel stair mounts up against posts and beside the rails to determine where the rails are to be cut to fit inside the swivel stair mounts. Note: this will vary depending upon the angle of the stairs. Cut rails at 90 degree straight cut.  
**Crossover Railing:** Cut bottom rail same as above. For top rail, make sure crossover connector is set at proper angle. Mark rail to cut making sure it fits snug into the crossover connector. (Note: Crossover post and connector will need to be installed first to determine what length the rail will be cut). Cut rails at 90 degree straight cut.
2. Bottom swivel mount base is to be positioned so the bottom rail has approximately 1" clearance from the nose of the step. (Note: a 1" spacer may be placed on the nose of the step to reach the 1" clearance.) Fasten base to post with self-tapping screws (provided).
3. Fasten base to post with self-tapping screws (provided).
4. Follow steps as specified in Stair Railing instructions.

### **Angle Swivel Mount:**

1. Bottom mount base is to be positioned so the bottom rail has no more than 2" clearance. (Note: a 1 1/2" spacer may be placed on the welded plate of the post to reach the 2" clearance.). Keeping base of mount centered and in hole turned down, fasten base to post with self-tapping screws (provided).
2. Attach top bracket to post. Measure up 32 1/4" (for 36" tall railing) or 38 1/4" (for 42" tall railing) from top of the bottom swivel base to the top of the top swivel base. Keep base of bracket centered and fasten base to post with self-tapping screws (provided).
3. Cut rails to length and assemble sections as specified in Standard (level) Railing.

