

# VertiCable®

(Style C80)

## Installation Instructions



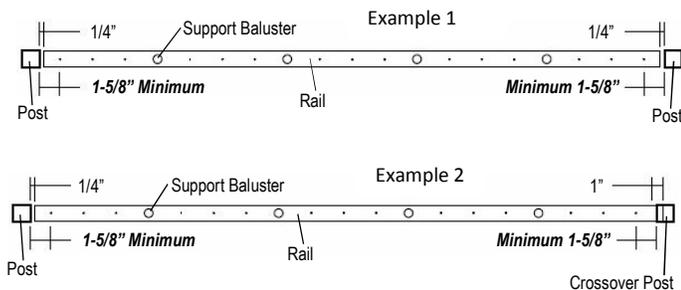
- It is the responsibility of the installer to meet all code and safety requirements, and to obtain all required building permits. The installer should determine and implement the installation techniques appropriate for each unique installation situation. Digger Specialties, Inc. and its distributors shall not be held liable for improper or unsafe installations.

### Standard (Level) Railing

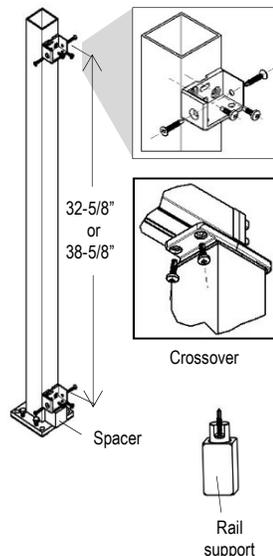
Note: Top rail is 1" longer on each end to accommodate Crossover railing.

- Cut the rails to length by holding rails against posts. Position so there will be the same baluster or cable spacing on each end of rails (**if possible**). Minimum spacing between post and cable is 1-5/8". Mark rails where they are to be cut. **Make sure rail is cut 1/4" shorter on each end to allow for mounts.** Cut rails.

**Crossover Railing:** Cut bottom rail as shown (Example 1). For top rail, make end spacing exactly 1" longer on all ends connecting to line crossover post (Example 2). If connecting to a corner crossover cut top rail same as bottom rail.



- Attach bottom wall mount to post by positioning the bottom rail so there is no more than 2" clearance. Keeping mount centered on post, fasten mount to post with pan head self-tapping screws (provided). A 1-3/8" spacer may be placed on the welded 3/8" plate of the post to reach the 2" clearance. Use a 1-1/4" spacer for posts with 1/2" plate.
- Attach top wall mount to post by measuring up 32-5/8" (for 36" tall railing) or 38-5/8" (for 42" tall railing) from the top of the bottom mount to the top of the top mount. Keeping mount centered on post, fasten mount to post with self-tapping pan head screws (provided).
- Fasten rail support to bottom side of bottom rail by inserting pan head self-tapping screw (provided) through center of threaded portion of support. This applies to all sections over 6ft long.
- Loosen cable(s) between end of rails and first support baluster on both ends of assembly by loosening hex nut(s) on underside of bottom rail.

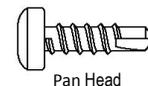


### Standard (Level) Railing Cont'd

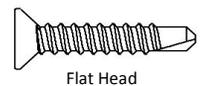
- Place rails into mounts. Fasten both rails through side of mounts with flat head self-tapping screws provided. **Crossover Railing:** Fasten top rail to crossover adaptor with pan head screws provided.  
  
NOTE: If screw stops penetrating top rail, rotate screw in reverse several revolutions while maintaining penetration pressure to remove potential material burr from tip of screw. Then continue to install screw; repeat as necessary.
- Tension cable(s) between end of rails and first support baluster on both ends of assembly by tightening hex nut(s) on underside of bottom rail. Proper cable tension is 200 lbs. [90 kg] per cable. A cable tension gauge is recommended. **Do not over tighten.**
- Carefully align mount cover on mount base before applying even, downward pressure to snap cover into place. (Mount Covers can be damaged if the above process is not followed).
- Attach 2 piece flairs to all posts.
  - Separate two piece flair.
  - Slide u-shaped flair around bottom of post.
  - Use rubber mallet to tap snap on piece to flair.

### Angle (Swivel) Mount

- Position bottom swivel mount base so the bottom of the rail has no more than a 2" clearance. NOTE: A 1 1/8" spacer may be placed on the welded 3/8" plate of the post to reach the 2" clearance. 1 1/4" spacer for 1/2" plate.
  - Measure up 32 5/8" (for 36" tall railing) or 38 5/8" (for 42" tall railing) from top of bottom mount to top of top mount.
- Keep base of mount centered and pin hole turned down, fasten base to post with pan head self-tapping screws (provided).
- Angle the swivel mount after it is installed on post. Measure from back of cup at one end to back of cup at other end to determine rail length. Cut rails.
- Install sections as specified in Standard (Level) Railing steps 4 - 9.



Pan Head



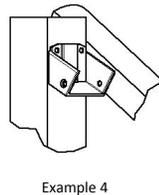
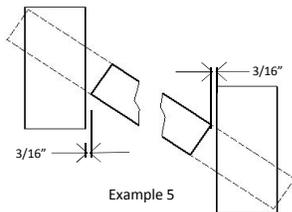
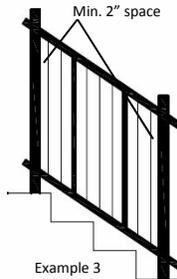
Flat Head

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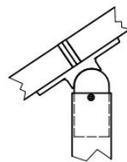
#### Stair Railing

- Lay bottom rail beside posts with approximately 1" clearance (use 1" spacer) between the rail and nose of step.

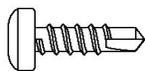
- Position rails against posts and even the end spacing on each end, if possible, with balusters parallel to the post. Minimum 2" spacing between post and cable (Example 3). Clamp rails to post. Mark rails for cutting. Mark posts for each mount position (Example 4). Cut rails 3/16" shorter than mark on each end. (Example 5).



- Crossover Railing:** For crossover stairs set stair crossover kit next to rails that are fastened to post to determine what height to cut post. Mark post and cut. Set crossover connector in post and fasten at proper height with self-tapping pan head screws provided. Set correct angle for crossover connector to match railing. Cut bottom rails same as above in step 2 (Example 5). Mark top rails to cut making sure it fits snug into the crossover connector (Example 6).



- Attach mounts to post with pan head self-tapping screws (provided).



Pan Head

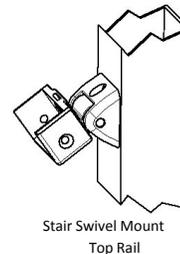


Flat Head

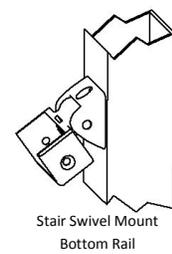
- Place stair section into mounts.
- Attach rails to mounts by inserting flat head self-tapping screws (provided) through both sides of mounts. Lightly tap mount covers onto mounts. (Use caution when installing covers by applying pressure directly on top of the cover tab.)
- Tension all cables of assembly by tightening hex nuts on underside of bottom rail with 3/4" socket. Proper cable tension is 200 lbs. [90 kg] per cable. A cable tension gauge is recommended. Do not overtighten.
- Attach 2-piece flairs to all posts. See step 9 of Standard (Level) Railing.

#### Stair Swivel Mount

- Identify top swivel mount and bottom swivel mount.

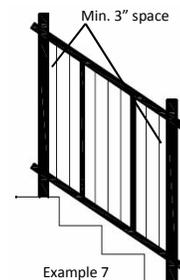


Stair Swivel Mount  
Top Rail

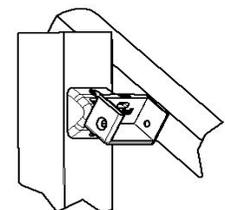


Stair Swivel Mount  
Bottom Rail

- Lay bottom rail (with approximately 1" clearance from the nose of the steps) beside the posts. Position rails against posts and even the end spacing on each end, if possible, with balusters parallel to the post. Minimum 3" spacing between post and cable (Example 7.) Clamp rails to post. Hold swivel stair mounts up against posts and beside the rail to determine where rails are to be cut to fit inside the swivel stair mounts. Mark posts for each stair swivel mount position (Example 8). NOTE: This will vary depending on angle of stairs. Cut rails. Cut top rail at same length as bottom rail unless using crossover application.



Example 7



Example 8

- Attach bottom swivel mount base 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 pan head self-tapping screws (provided).
- Attach top swivel mount base to post using pan head self-tapping screws (provided)
- Attach rails to mounts using flat head self-tapping screws (provided) on each side of rail.
- Tension all cables of assembly by tightening hex nuts on underside of bottom rail with 3/4" socket. Proper cable tension is 200 lbs. [90 kg] per cable. A cable tension gauge is recommended. **Do not over tighten.**
- Attach 2 piece flairs to all posts. See step 9 of Standard (Level) Railing.