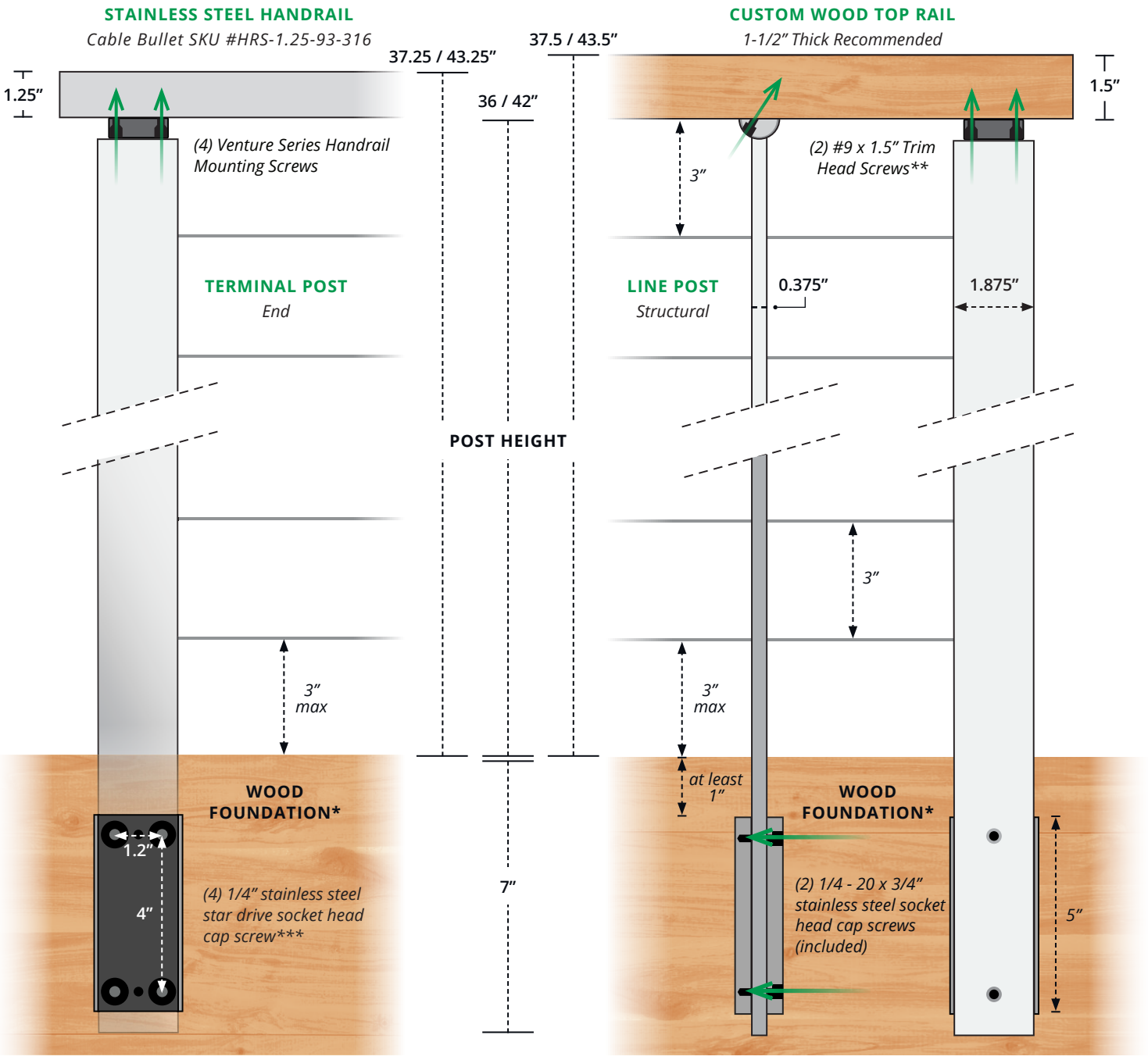
cable bullet
CABLE RAIL SYSTEM

SETUP GUIDE

VENTURE SERIES SIDE MOUNT POST

36" | 42" **END | LINE** **MODERN TOP**



IMPORTANT: It's the installer's responsibility to make certain the structure supporting the posts can handle the transferred loads of the railing system (+150 lbs of tension/cable).

** Ensure proper blocking to secure against a 200 lb. concentrated load.*

*** Screw length will vary by handrail thickness.*

**** Custom Cable Bullet screw with continuous thread to maximize holding strength. See pg. 2 for screw length recommendations.*

Please Note: Side mount posts are NOT recommended for projects with concrete foundations.

BEFORE INSTALLING POSTS...

Use your project layout to determine the location of each post bracket. **NOTE:** The distance from the surface of your deck to the bottom cable run should not exceed 3 inches.

STEP 1 | MOUNT POST BRACKET

Drill a 3/16" pilot hole, and drive in first bracket mounting screw* *(1/4" stainless steel star drive socket head cap screw).* Do not tighten screw all the way, and check that bracket is level. Repeat process for all bracket mounting screws.

PRO TIP: Mark each mounting screw location with a 1/4" drill bit to keep bracket from wandering and best center the 3/16" pilot hole in the bracket.

STEP 2 | TIGHTEN SCREWS

Check that bracket is level and plumb, then tighten all screws.

PRO TIP: If necessary, use plastic composite shims to plumb and level bracket.

STEP 3 | INSTALL POST

Place post inside bracket, aligning the tapped holes. Attach post to bracket with head cap screws included with post *(see pg. 1)*. Use 3/16" Allen wrench* to advance screws. Check that post is plumb. Repeat steps 1-3 for the remaining brackets and posts.

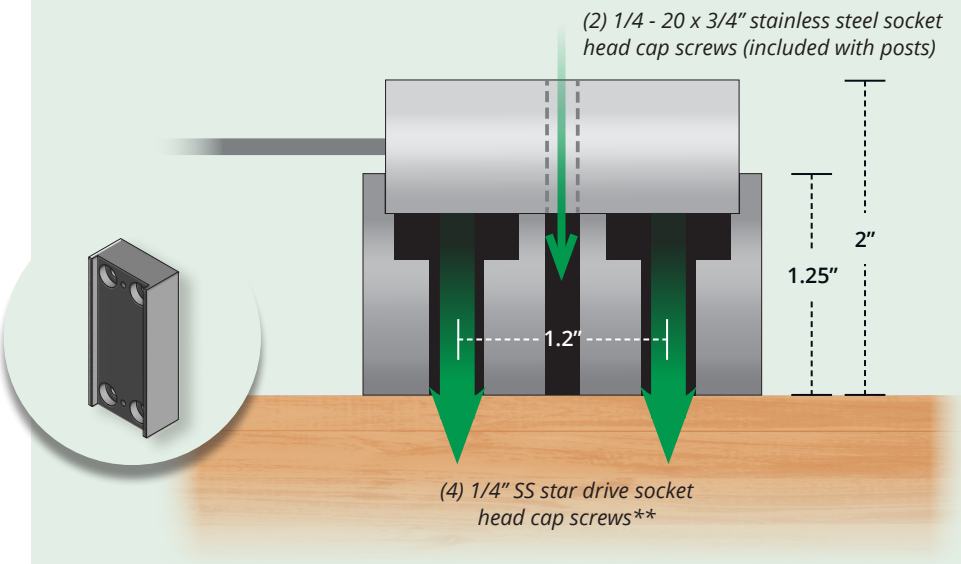
STEP 4 | ATTACH TOP RAIL

Your project is now ready for top rail. Installation will vary by top rail selection. For Cable Bullet stainless handrail, refer to the installation instructions or visit **www.cablebullet.com/blogs/guides**.

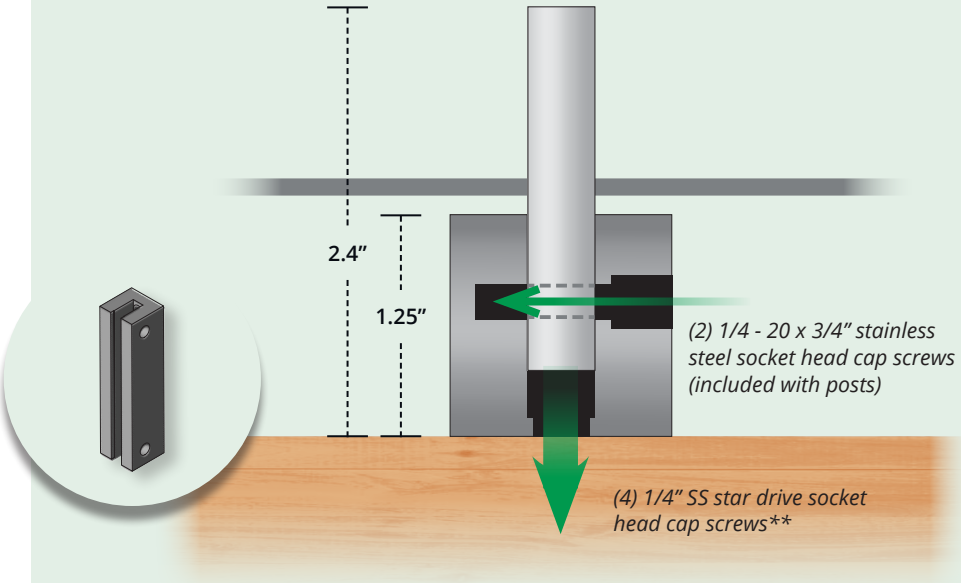
IMPORTANT: All recommendations and rail components are designed to comply with the **International Residential Code (IRC)**. Because building codes may vary it is the installer's responsibility to verify that the installed system complies with all applicable state and local building codes.

For more information visit: **www.cablebullet.com/pages/terms-conditions**

END POST BRACKET

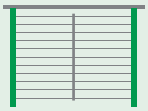


INTERMEDIATE POST BRACKET



**Post brackets MUST be anchored to project structural frame (joists, blocking, etc) and all 3" of Cable Bullet mounting screw threading should be engaged in structural material. If mounting directly to structural material, use 3-1/2" long mounting screws. If mounting through non-structural material (veneer or trim), use 4-1/2" long mounting screws.

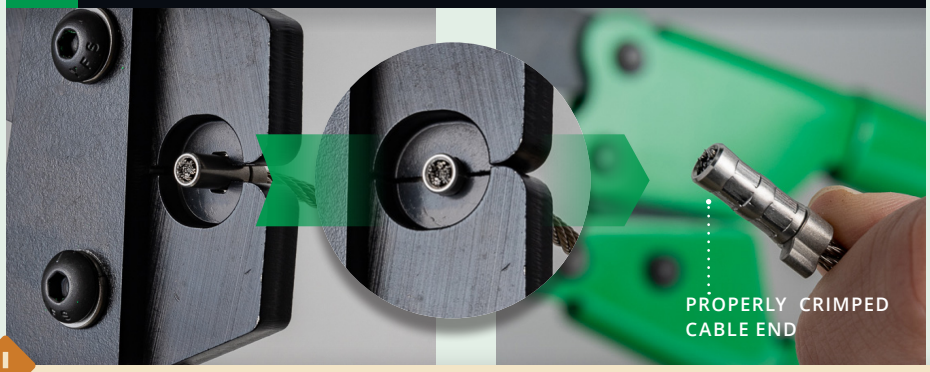
POST SPACING FOR CABLE SUPPORT



TENSIONING POST SPACING | 20' MAX.
To ensure adequate cable tension (150lbs) use two end posts (back-to-back) to cover longer runs.

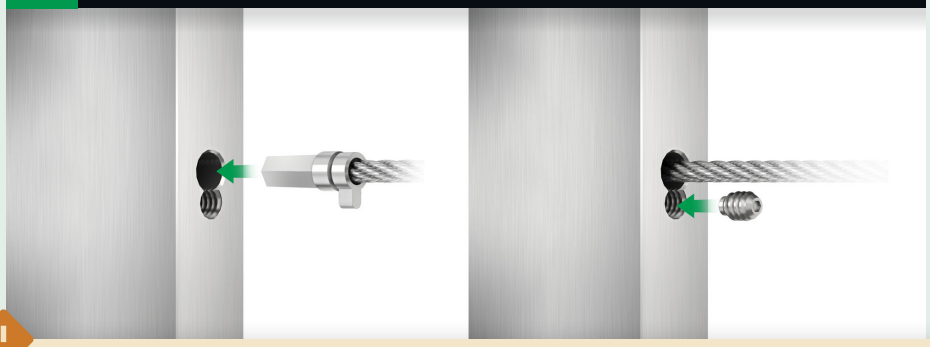
CABLE SUPPORT | 4' MAX.
To minimize cable deflection under load, add intermediate posts or cable spacer bars every 42"–48".

6 CRIMPING CABLE ENDS



CAUTION: A properly crimped cable end is essential to maintaining the integrity and safety of your cable. A weak connection will slip over time or fail against an impact load!

7 SET CABLE ENDS



CAUTION: To minimize the risk of cross-threading or galling, use a manual socket screw driver or Allen wrench.

8 MAKE FINAL CUT

Image shows pulling cable tight on angled run with top mount post.

10 SET SPACER BARS

BEFORE INSTALLING CABLES...

Remove pre-installed set screws from channels of post. ***These are essential for tensioning cables.*** Apply a drop of stainless steel lubricant* to each set screw channel to ease installation, reduce the likelihood of seizing, passivate the stainless, and help prevent corrosion.

STEP 5 | CUT CABLE LENGTHS

Measure railing sections and cut over-sized, rough lengths of cable for each. Leave a few extra inches to avoid ending up short. You will make a final cut later.

STEP 6 | CRIMP CABLE ENDS

Fit first end of cable with lobed washer and crimp sleeve *(included with post)*. Use Cable Bullet Cut & Crimp Multi-Tool* to firmly set each side of the crimp sleeve. Properly crimped cable end will show two distinct hexagonal imprints.

STEP 7 | SET CABLE END

Retrieve a pre-installed set screw. Insert crimped cable and lobed washer into post tensioning channel and use 1/8” Allen key* (or hex socket power bit*) to advance set screw until it’s flush with face of the post. With crimped end locked in place, thread cable through all intermediate posts and spacer bars* along span.

STEP 8 | MAKE FINAL CUT

Pull cable hand-tight, measure 1” past face of post, and make final cut. Repeat steps 6 & 7 to secure the second end of cable. Repeat process for each cable run.

STEP 9 | FINAL TENSIONING

Once all cables are in place, begin tensioning each run from innermost cable outwards. Take care not to over-tighten cables. Properly tensioned cable will deflect approximately 1/4” per foot under a 50lb load.

STEP 10 | SET SPACER BARS

Position and lock floating spacer bars in place by advancing set screws on top and bottom. Wipe down railing following the Cable Bullet Care & Maintenance instructions to clean & protect stainless steel. Your railing is now complete. For more information, visit **www.cablebullet.com/blogs/guides.**

** available at www.cablebullet.com*

POST PLACEMENT ON STAIRS

STEP 1 | SET FIRST POST

Install either the end post at the top of your staircase or the end post at the landing / bottom of staircase.

STEP 2 | MEASURE

Find the rake plane of your steps **A**. Measure the distance **B** from that plane to the top of your bracket at the face of the post where the cable runs.

STEP 3 | SET END POST

Use the distance **B** found in Step 2 to set the tensioning post at the other end of the stairs. The distance from the top of the bracket to the plane of the steps must remain consistent when setting each post bracket.

STEP 4 | ADD INTERMEDIATE(S)

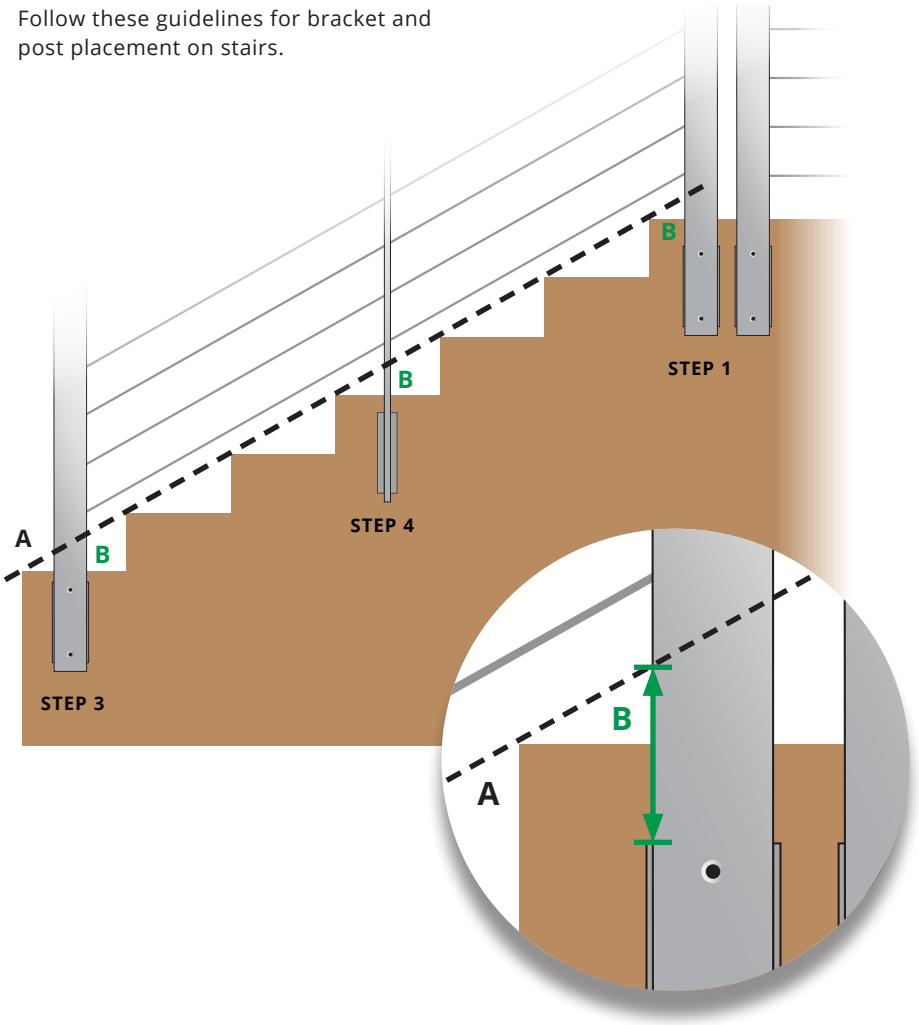
If placing intermediate post(s) on stairs, find post location and place the center of the top of the intermediate bracket distance **B** from the plane of the steps.

STEP 5 | MIRROR POSTS

If placing posts on both sides of staircase, mirror the posts from the first side of steps using a level and square. Set brackets straight across at distance **B** from the stair plane.

RECOMMENDATIONS

Follow these guidelines for bracket and post placement on stairs.



Detailed installation instructions for Venture series railing are available at:

www.cablebullet.com/blogs/guides

WE'RE HERE TO HELP!

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