

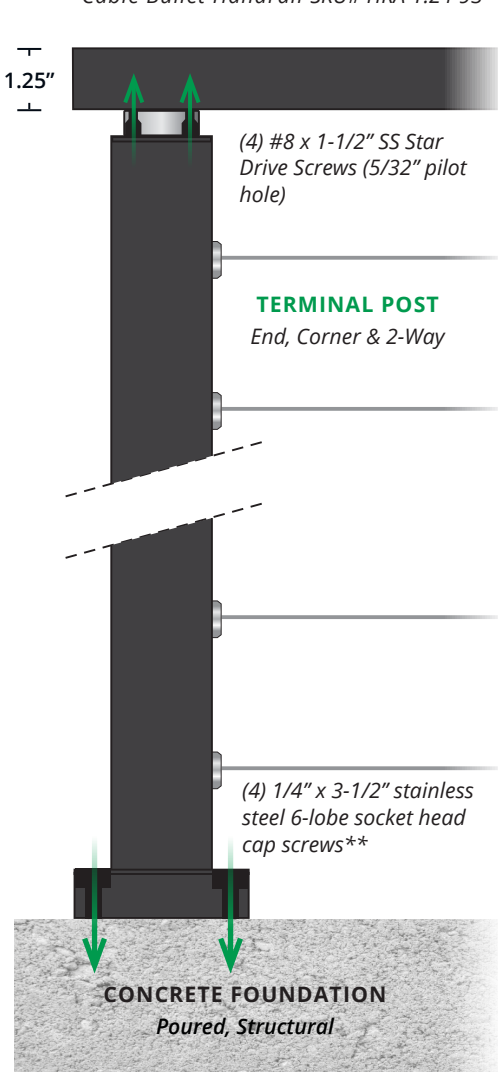
**SIGNATURE SERIES TOP MOUNT POST**

36" | 42"

END | CORNER | 2-WAY | LINE

**ALUMINUM HANDRAIL**

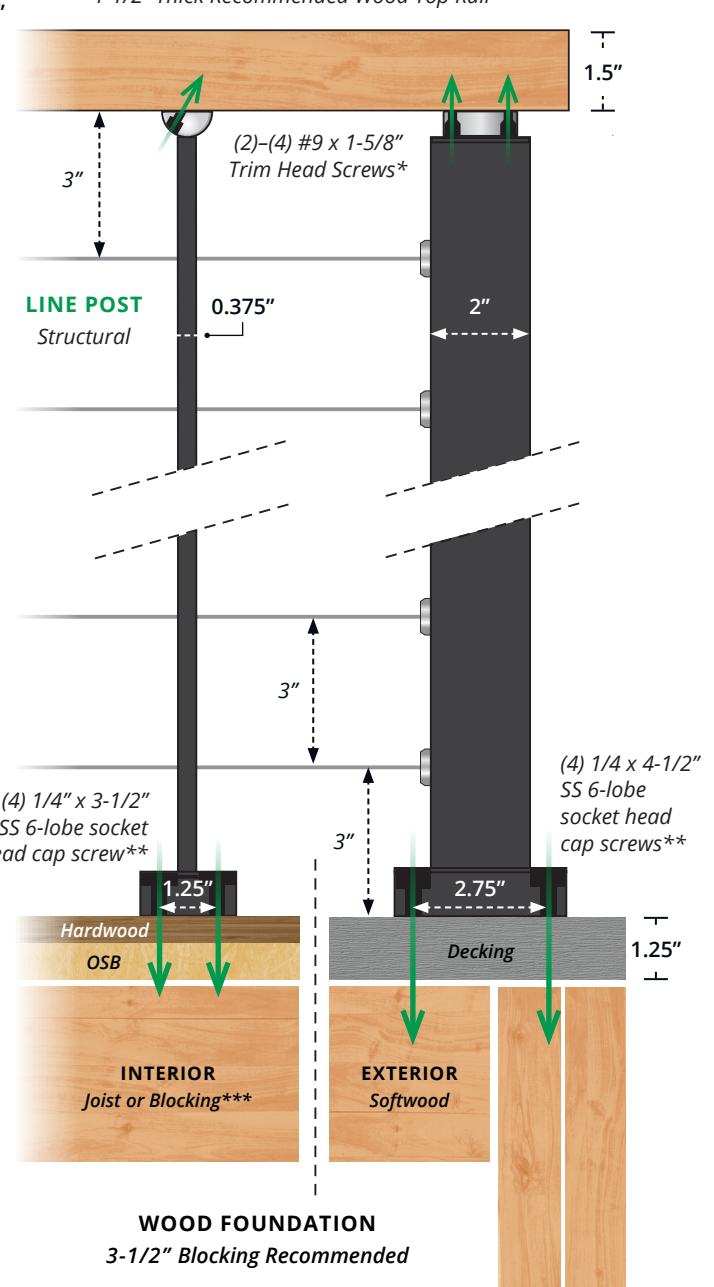
Cable Bullet Handrail SKU# HRA-1.24-93



Concrete should be rated at 3500 PSI or higher and free of cracks in the area where posts will be mounted.

**CUSTOM WOOD TOP RAIL**

1-1/2" Thick Recommended Wood Top Rail



\*Screw length will vary by handrail thickness.

\*\*Custom Cable Bullet screw with 3" of continuous threading to maximize holding strength. Posts **MUST** be anchored to project structural frame (joists, blocking). All 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.

\*\*\*If no interior blocking, consult a local builder for custom solution to secure against a 200# concentrated load.



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

## STEP 1 | SET YOUR POSTS

Mark and drill four pilot holes for the Cable Bullet post mounting screws. Before tightening the structural screws, plumb each post with shims, or use the four 3/8" leveling set screws in post base (hard surfaces only). Once your posts are secured, set the base cover plate in place.

## STEP 2 | ATTACH YOUR TOP RAIL

On tensioning/end posts, use the adhesive strip to temporarily fix the post top collar to your handrail at the desired location. Screw the collar to the handrail, then reassemble the collar and center pin before tightening the set screw.

The intermediate post top can be angled for stair runs. Loosen the screw that attaches the top to the post column, and adjust the angle as needed.

## STEP 3 | INSTALL YOUR CABLES

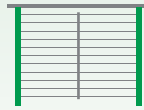
Your railing is now ready for cable infill. Complete this process following the **Tensioner Kit for Metal Posts setup guide**.

### TOOLS & SUPPLIES

- ❑ Drill/impact driver
- ❑ 3/16" drill bit
- ❑ T30 x 6" Star Drive power bit
- ❑ Level
- ❑ Tape measure
- ❑ 3/16" Allen wrench
- ❑ 1/8" Allen wrench
- ❑ Handrail mounting screws (reference drawing on pg. 1)
- ❑ Post mounting screws (reference drawing on pg. 1)

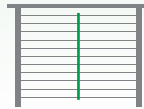
## POST SPACING FOR CABLE SUPPORT

Follow these guidelines for optimal cable tension and minimize cable deflection.



### TENSIONING POST SPACING | 20' MAX.

To ensure adequate cable tension (150#) use 2-way posts and additional tensioners to cover longer runs.



### CABLE SUPPORT POSTS | 4' MAX.

To minimize deflection under load, add intermediate posts, or cable spacer bars every 42-48 inches.

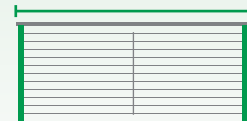
## POSTS SPACING FOR HANDRAIL SUPPORT

Structural support post spacing for Cable Bullet reinforced aluminum handrail will vary by layout. Follow the guidelines below.

⚠ *For wood top rail, post spacing will vary by material, thickness and rigidity.*

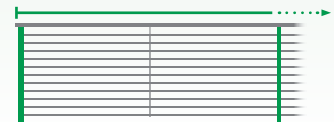
### SIMPLE SPAN | 7' MAX.

Standalone section of railing with 2 end posts and no continuation on either end.



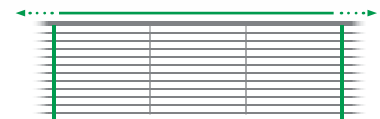
### OUTSIDE SPAN | 8' MAX.

One end post with one connecting span on the opposite side.



### CENTER SPAN | 9' MAX.

One section of railing with two connecting spans.



**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](http://www.cablebullet.com/pages/terms-conditions)

Detailed installation instructions for Signature series railing are available at:

[www.cablebullet.com/blogs/guides](http://www.cablebullet.com/blogs/guides)

WE'RE HERE TO HELP!



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