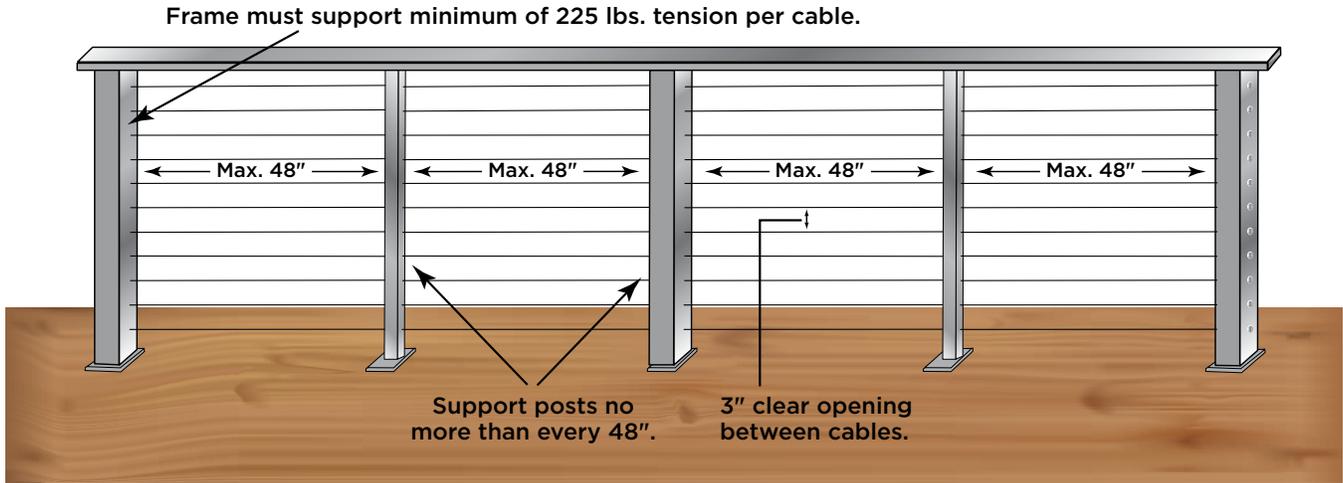


## METAL POST APPLICATIONS | ALL CONFIGURATIONS

### Installation Guide



#### End Posts

Since hundreds of pounds of tension are being applied to end posts using cable railing, posts must be substantial enough to handle the tension. Please carefully review the requirements outlined on this page to ensure your installation provides appropriate support. For more detailed technical information regarding framework for cable rail installations go to [bezdanultratec.com](http://bezdanultratec.com).

- ▶ Stainless steel alloy 316 posts are strongly recommended for exterior applications
- ▶ End posts to which hardware is mounted must be constructed so that they will not show obvious deflection as the cables are tensioned to loads of 225 lbs. or more
- ▶ Must be securely mounted to the deck to prevent the post from coming loose when cables are tensioned
- ▶ The 212 Series and the 232 Series (for angled applications) have been tested for use with Bezdán's stainless steel  $\varnothing$  1-1/2" posts. Test results available upon request.
- ▶ The 102, 232 and 262 Series metal post kits are designed for use with 2" square tube
- ▶ Wall thickness of end posts to be a minimum 1/4" to handle the load when the cables are tensioned while intermediate posts can be 1/8"

#### Intermediate Posts

The cable should be supported in some manner no less than every 48" along its run to keep the cable rungs from spreading.

Intermediate posts, other than those that are structurally necessary, can be a thin metal cable brace with holes for the cables to pass through (see illustration above). A typical cable brace is 1/4" thick by 1" wide made of steel (to be painted) or stainless steel. Intermediate posts are available on special order (see page 36).

#### Post for Intersecting Runs

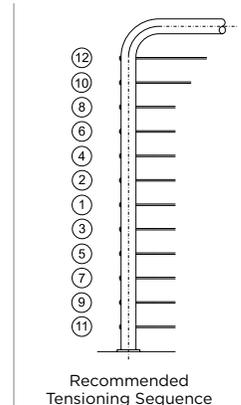
A desirable look, unique to Ultra-tec, is the ability to combine a through-post and surface mount fitting in a single corner post on the same plane. This feature achieves a 90° corner and the look of continuous cable. If a through-post installation is used the runs need to be offset and may appear unbalanced.

#### Top and Bottom Rail

Must be sufficient in strength for structural integrity. A bottom rail is not required but does help distribute the force away from the lower portion of the post. If using aluminum, the end posts should be reinforced. A bottom rail to prevent bowing is recommended.

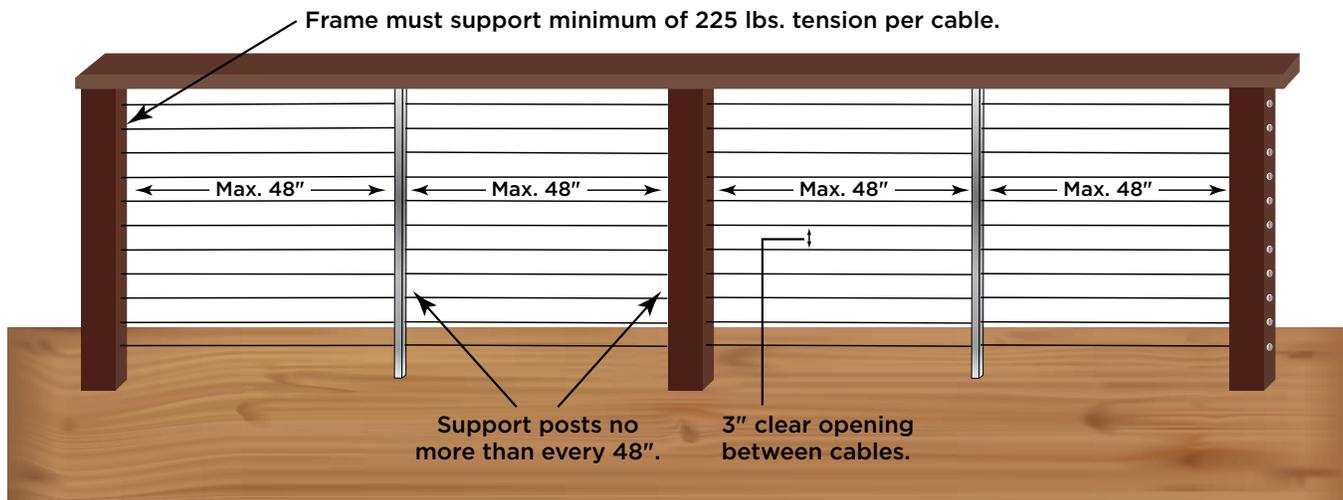
#### Completing the Cable Railing

Cable railing requires 11 - 13 rows of cable depending on post height and railing framework. A 3" spacing between rows is recommended to comply with code requirements. All runs of cable and end fittings are installed before tensioning. Follow the recommended tensioning sequence to ensure proper installation and achieve optimal results.



## WOOD POST APPLICATIONS | ALL CONFIGURATIONS

### Installation Guide



#### End Posts

Since hundreds of pounds of tension are being applied to end posts using cable railing, posts must be substantial enough to handle the tension. Please carefully review the requirements outlined on this page to ensure your installation provides appropriate support. For more detailed technical information regarding framework for cable rail installations go to [bezdanultratec.com](http://bezdanultratec.com).

- ▶ A minimum 4"x4" nominal post (3-1/2"x3-1/2" actual size) end post is required to keep from bending when cables are tensioned
- ▶ End posts to which hardware is mounted must be constructed so that they will not show obvious deflection as the cables are tensioned to loads of 225 lbs. or more
- ▶ Must be securely mounted to the deck to prevent the post from coming loose when cables are tensioned

#### Intermediate Posts

The cable should be supported in some manner no less than every 48" along its run to keep the cable rungs from spreading.

Intermediate posts, other than those that are structurally necessary, can be a thin metal cable brace with holes for the cables to pass through (see Illustration above). A typical cable brace is 1/4" thick by 1" wide made of steel (to be painted) or stainless steel. Intermediate posts are available on special order (see page 36).

#### Post for Intersecting Runs

A desirable look, unique to Ultra-tec, is the ability to combine a through-post and surface mount fitting in a single corner post on the same plane. This feature achieves a 90° corner and the look of continuous cable. If a through-post installation is used the runs need to be offset and may appear unbalanced.

#### Top and Bottom Rail

Must be sufficient in strength for structural integrity. It is recommended to reinforce the flat edge under the top rail with a support such as a 2"x4". A bottom rail is not required but does help distribute the force away from the lower portion of the post.

#### Completing the Cable Railing

Cable railing requires 11 - 13 rows of cable depending on post height and railing framework. A 3" spacing between rows is recommended to comply with code requirements. All runs of cable and end fittings are installed before tensioning. Follow the recommended tensioning sequence to ensure proper installation and achieve optimal results.

