Inline Design

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Installing a Miami System

Overview[1]

This document contains the comprehensive information for installing components of the Miami cable railing system: posts, swageless tensioners and swageless terminals.

General Instruction Page

YouTube Installation - Miami Style Cable Rail System

Engineering Specifications

Following these instructions will minimize maintenance on the cable system. The most common mistake in cable railing installation is twisting the cable while tensioning. This results in cable untwisting the tensioners and/or eye bolts over time. Also common is the tendency to over-tighten cables will eventually cause damage to the system. Make sure all cable spans are equally tight, over-tightening a middle cable will make the other cables loose.

Caution:

- Wear protective ANSI approved safety glasses, working gloves and breathing mask at all times
- Inspect before installation or use; do not use if parts are loose or damaged.
- Use for intended purposes only
- Beware of dynamic loading. Sudden jerks against load may briefly create excess load causing failure

It is the responsibility of Inline Design customers to comply with local, national, and international building codes. Please ensure proper research is conducted prior to installation, due to variations building codes, Inline Design will not be liable for ensuring that projects meet code requirements.

Tools Required

Mounting Posts:

1) Tape
2) Power drill
3) Connecting hardware for your mounting surface
    We recommend using bolts rather than screws. Type of connecting hardware differs depending on the surface type. Due to the variety of floor surfaces, Inline Design customers must self-supply the connecting hardware for the base (i.e., bolts, anchor bolts, etc.)
    1) Wood surface: 3/8 x 3” lag screws/bolts
    2) Steel tube: 10-24 machine screws
    3) Concrete or brick: sleeve anchor screws
4) Wrench
5) Level

[1] This document includes hyperlinks and is intended to be viewed as a PDF rather than print material

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Stair Posts:
Refer to these documents for post placement information and installation guidelines

Installing Handrails
Refer to this document for required tools and directions to attach handrails to posts

Installing Miami Style Cable Terminals:
Refer to this document for required tools and directions to install terminal fittings

Installing Miami Style Cable Tensioners:
Refer to this document for required tools and directions to install tensioner fittings

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Instructions

Part 1: Mounting Posts

1) Only for projects with stair post installation: refer to these documents for post placement and stair installation guidelines
2) Only if using base covers: lift the base cover gently to have enough spec to work. Tape the base cover so it doesn't fall down and is out of the way. Repeat for each step. Apply the same to all the posts. Skip this step if not using base covers.
3) Adjust the post positions on your surface, ensure that all the posts line up correctly for cables
4) Mark your drilling points through the base of your posts
5) Remove the posts
6) Perform the guide/spot drilling for the bolts
7) Put back the first post; use a level on all sides to ensure the post is perfectly level
8) Use a wrench to tighten bolts to your surface
   Note: you may want to tape around the post before using the wrench in order to prevent scratching

Part 2: Cut Tubes to Size

If using Inline Design tubes for handrails, refer to this document properly cut stainless steel tubes

Part 2: Install Handrails

Refer to this document to attach your stainless steel handrails to the brackets on top of your posts. It is important that the handrails are installed before the spans of cable to support the tension of the wire running between posts.

Part 3: Screw in all the eye bolts to the pre-drilled holes your posts

1) Screw the eye bolts into the threaded M6 holes or rivet inserts for custom fabricated posts (usually stair posts)

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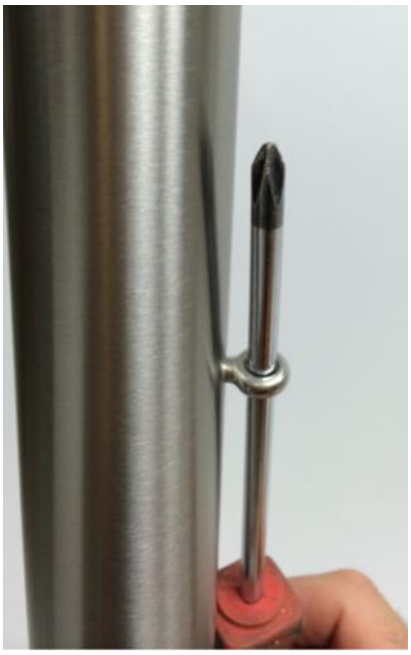
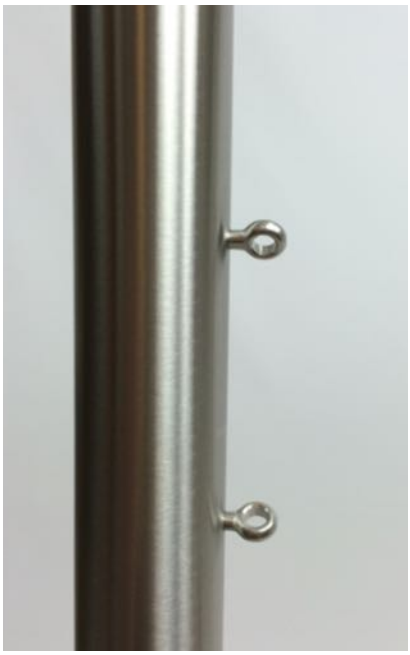
2) Using the screwdriver, tighten the eye bolts half a turn past finger tightness. The goal is to have the eye bolt tight enough to not pull out during installation. Do this for both sides of a span of cable





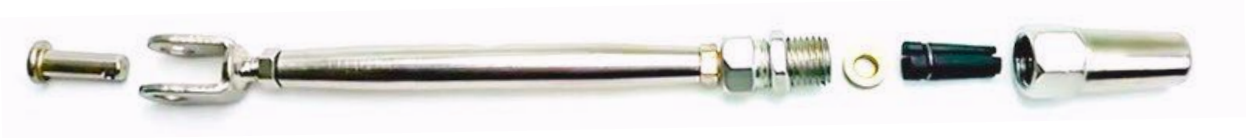
Note: Use WD-40 if there is difficulty tightening the bolts

Part 4: Installing Cable Terminals

Refer to this document.

Part 5: Installing Cable Tensioners

Refer to this document.



Part 6: Maintaining a Stainless Steel Surface

Refer to this document for direction on buffing and refinishing stainless steel surfaces

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NOTE: A small amount of surface corrosion is not uncommon after a some exposure to weather or salty conditions. We recommend using our passivation solution or some sort of stainless polish to keep any surface corrosion from happening; more information available on our Engineering Specs Page.