

Structural Post Installation Guide

It is the responsibility of the installer to meet or exceed all code and safety requirements, and to obtain all required building permits. These instructions are only a guide and may not address every circumstance. The deck and railing installer should determine and implement appropriate installation techniques for each situation. **The manufacturer shall not be held liable for improper or unsafe installations.**

Step 1 • Safety Precautions

a) Review all local building codes and always use safety equipment when installing these products.

Step 2 • Mounting Surface Preparation

a) Determine placement of post on deck surface. Set post in place and mark mounting holes.

Step 3 • Mount Post

a) Mount post to deck surface using one of the options and suggested mounting hardware listed in Mounting Options.

NOTE: Installer must determine the proper mounting hardware based on application (not included).

b) With Post secured to surface, check post with a level. If the post needs to be adjusted for plumb, loosen mounting bolts and adjust with included 1/4" shims. Tighten mounting bolts.

NOTE: Included shims allow approximately 4-5° maximum plumb correction.

WOOD SURFACES

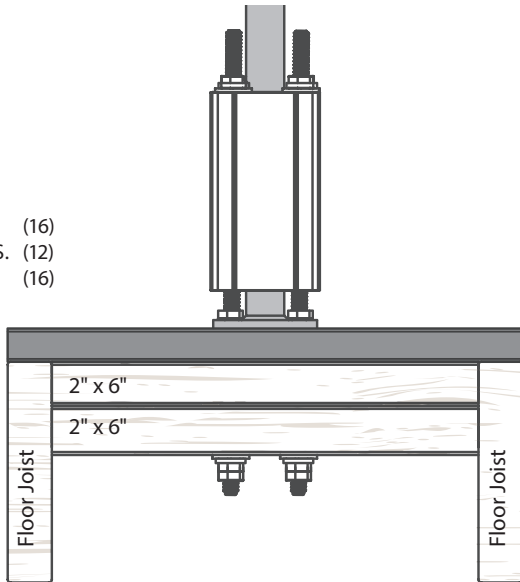
Installation Method for Pressure Treated or Wood Fiber Based Composite Decking

All-Thread Bolts

1/2" Flat Washer S.S. (16)

1/2" Lock Washer S.S. (12)

1/2" S.S. Nut (16)



CONCRETE SURFACES

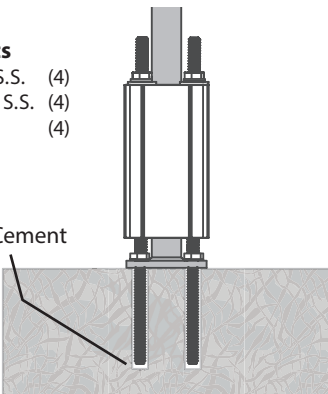
All-Thread Bolts

1/2" Flat Washer S.S. (4)

1/2" Lock Washer S.S. (4)

1/2" S.S. Nut (4)

Epoxy Cement



PREFERRED METHOD

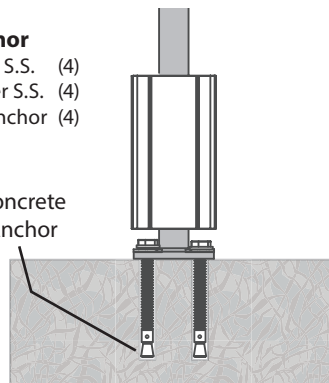
Concrete Anchor

1/2" Flat Washer S.S. (4)

1/2" Lock Washer S.S. (4)

1/2" Concrete Anchor (4)

Concrete Anchor



ALTERNATE METHOD

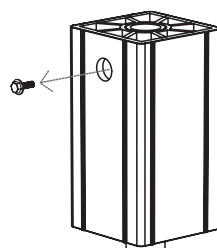
42" RAILING HEIGHT

Commercial Installation

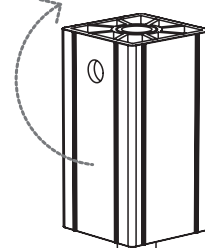
It is necessary to adjust the Structural Post Mount Top Block when installing 42" railing. To adjust height, remove lock screw, remove and rotate block, reinstall block and lock screw.

NOTE: Make certain screw is tight on top block.

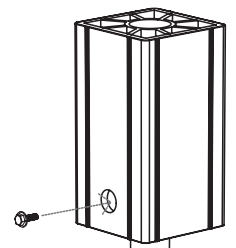
Remove Lock Screw



Rotate Top Block



Reinstall Lock Screw



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Structural Post Kit Includes

Adjustable height for 36" or 42" Rail

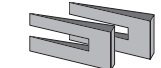
Lock Screw

Top Block

Rod with Base

Bottom Block

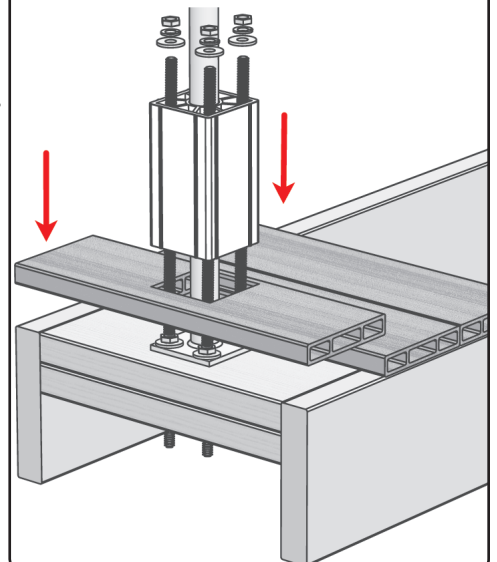
Post Base



(2) - Leveling Shims

Installation Method for Cellular PVC or Hollow-Core Composite Decking

To achieve maximum installation strength - Hollow Core Composite or Cellular PVC deck boards should be notched/cut out around Structural Post Mount and Structural Post Mount installed directly to sub-structure blocking.

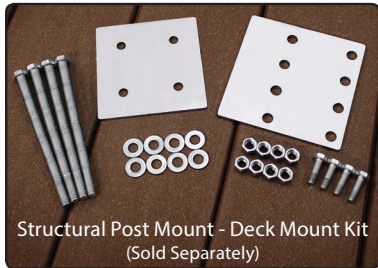
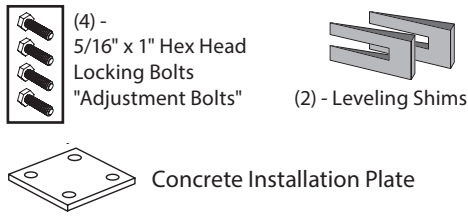


HEAVY-DUTY Structural Post Installation Guide

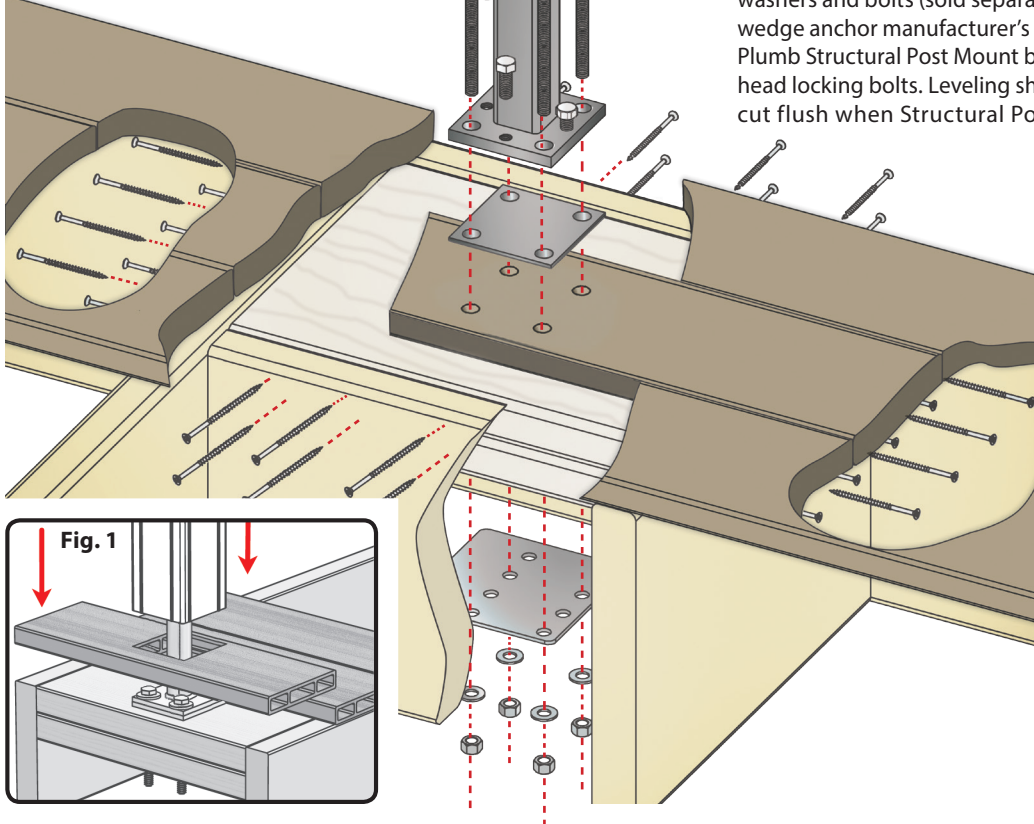
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HEAVY-DUTY Structural Post Mount Includes



Deck Installation



DECK INSTALLATION (Hardware not included)

- Step 1** Determine Structural Post Mount location. Screw two (2) 2" x 6" blocks together and install them between joists in deck framing. 2" x 6" wood block wood grain should run perpendicular to joists in deck framing. Insert (4) #10 x 3" exterior grade screws evenly spaced in 3 sides of 2" x 6" blocking.
- Step 2** Install deck covering.
- Step 3** Lay out where post will be mounted. Mark holes at 4 corners of Structural Post Mount Base Plate on deck surface. Drill (4) 7/16" holes through deck surface and 2" x 6" blocking. **If using hollow core deck board use Deck Mount Kit Top Plate as a cut template to trim out decking (see Fig. 1).**
- Step 4** Place 4" Deck Mount Kit top plate on deck surface. Place Structural Post Mount on Deck Mount Kit top plate and install (4) 5/16" x 1" leveling bolts into tapped holes in Structural Post Mount plate.
- Step 5** Insert four (4) 3/8" x 6" bolts into the pre-drilled 7/16" holes. Position Base Plate under the deck, aligned with the bolts. Install washers and 3/8" nuts. Adjust the (4) 5/16" x 1" leveling bolts to plumb the Structural Post Mount. Insert (2) two shims under post base around mounting bolts for added leveling. Trim shims flush with post base. Securely tighten all four bolts.

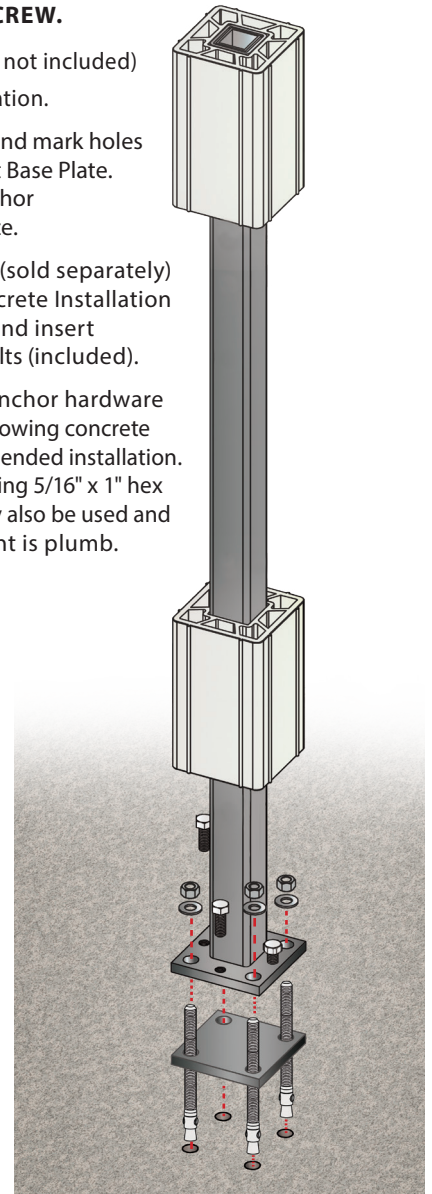
ADJUSTING TOP BLOCK HEIGHT (FOR 42" HIGH RAILING)

When using 42" high railing, it is necessary to adjust top block height. To adjust height, remove screw in top block, remove and rotate block, reinstall block, reinstall lock screw.

BE SURE TO TIGHTEN LOCKING SCREW.

CONCRETE INSTALLATION (Hardware not included)

- Step 1** Determine Structural Post Mount Location.
- Step 2** Lay out where post will be mounted and mark holes at (4) corners of Structural Post Mount Base Plate. Drill (4) holes per concrete wedge anchor manufacturer's suggested pre-drill size.
- Step 3** Insert 3/8" concrete wedge anchors (sold separately) into (4) pre-drilled holes. Install Concrete Installation Plate. Install Structural Post Mount and insert four (4) 5/16" x 1" hex head locking bolts (included).
- Step 4** Install and tighten concrete wedge anchor hardware washers and bolts (sold separately) following concrete wedge anchor manufacturer's recommended installation. Plumb Structural Post Mount by adjusting 5/16" x 1" hex head locking bolts. Leveling shims may also be used and cut flush when Structural Post Mount is plumb.



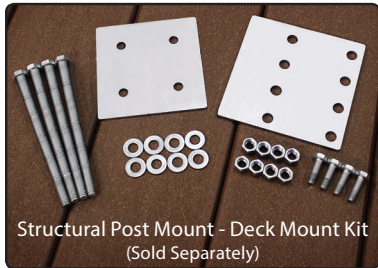
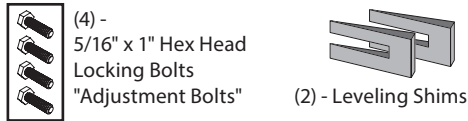
Concrete Installation

Cable Railing Structural Post Installation Guide

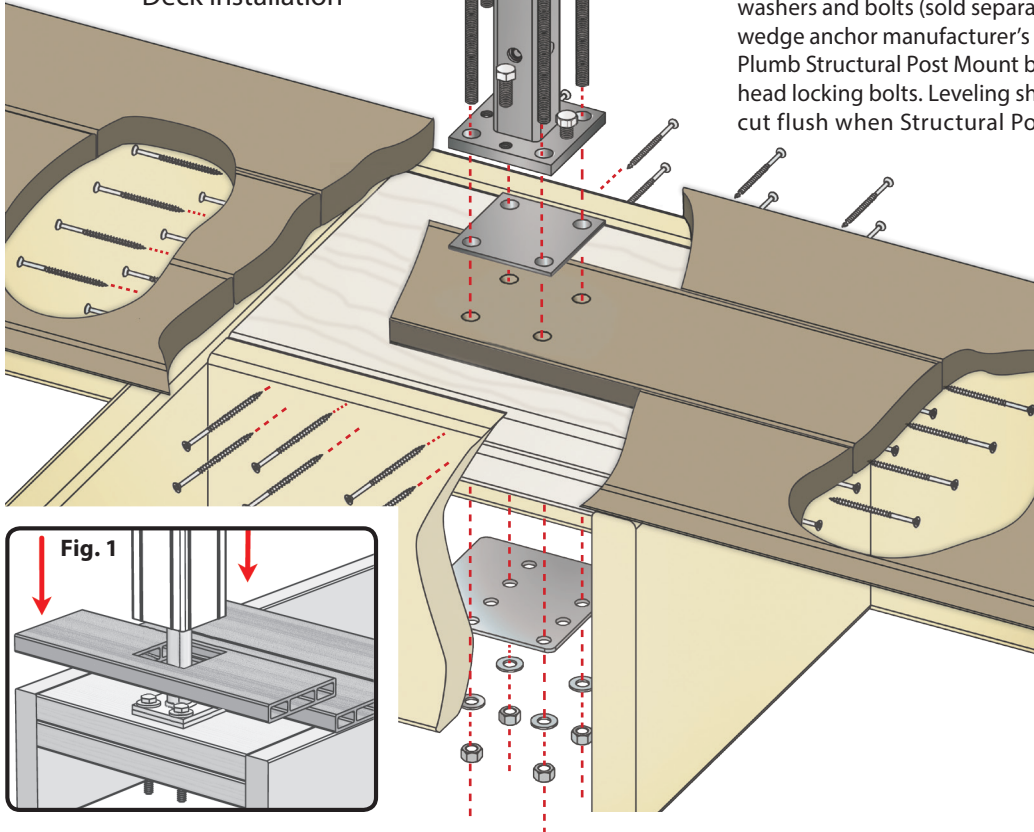
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Cable Railing Structural Post Mount Includes



Deck Installation



DECK INSTALLATION (Hardware not included)

- Step 1** Determine Structural Post Mount location. Screw two (2) 2" x 6" blocks together and install them between joists in deck framing. 2" x 6" wood block wood grain should run perpendicular to joists in deck framing. Insert (4) #10 x 3" exterior grade screws evenly spaced in 3 sides of 2" x 6" blocking.
- Step 2** Install deck covering.
- Step 3** Lay out where post will be mounted. Mark holes at 4 corners of Structural Post Mount Base Plate on deck surface. Drill (4) 7/16" holes through deck surface and 2" x 6" blocking. **If using hollow core deck board use Deck Mount Kit Top Plate as a cut template to trim out decking (see Fig. 1).**
- Step 4** Place 4" Deck Mount Kit top plate on deck surface. Place Structural Post Mount on Deck Mount Kit top plate and install (4) 5/16" x 1" leveling bolts into tapped holes in Structural Post Mount plate.
- Step 5** Insert four (4) 3/8" x 6" bolts into the pre-drilled 7/16" holes. Position Base Plate under the deck, aligned with the bolts. Install washers and 3/8" nuts. Adjust the (4) 5/16" x 1" leveling bolts to plumb the Structural Post Mount. Insert (2) two shims under post base around mounting bolts for added leveling. Trim shims flush with post base. Securely tighten all four bolts.

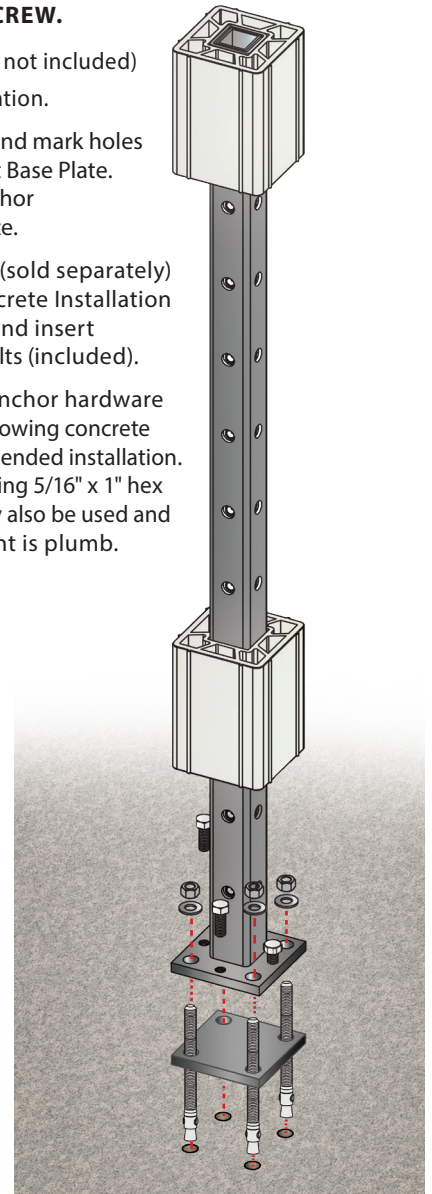
ADJUSTING TOP BLOCK HEIGHT (FOR 42" HIGH RAILING)

When using 42" high railing, it is necessary to adjust top block height. To adjust height, remove screw in top block, remove and rotate block, reinstall block, reinstall lock screw.

BE SURE TO TIGHTEN LOCKING SCREW.

CONCRETE INSTALLATION (Hardware not included)

- Step 1** Determine Structural Post Mount Location.
- Step 2** Lay out where post will be mounted and mark holes at (4) corners of Structural Post Mount Base Plate. Drill (4) holes per concrete wedge anchor manufacturer's suggested pre-drill size.
- Step 3** Insert 3/8" concrete wedge anchors (sold separately) into (4) pre-drilled holes. Install Concrete Installation Plate. Install Structural Post Mount and insert four (4) 5/16" x 1" hex head locking bolts (included).
- Step 4** Install and tighten concrete wedge anchor hardware washers and bolts (sold separately) following concrete wedge anchor manufacturer's recommended installation. Plumb Structural Post Mount by adjusting 5/16" x 1" hex head locking bolts. Leveling shims may also be used and cut flush when Structural Post Mount is plumb.



Concrete Installation