



STRUCTURAL POST

INSTALLATION INSTRUCTIONS

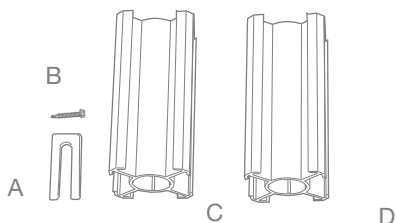
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FACE-MOUNT POST PROCEDURE

- Determine placement of all structural posts before beginning installation.
- To properly install a Deck Rail™ kit with Decorative Cap, the straight (middle) or right angle (corner) posts must be cut and installed at the final rail height (of your choice) including the Decorative Cap, minus 1 5/16".
- Endurance® rail kits are manufactured for a 36" finished-rail height with a 2" standard bottom space.

COMPONENT LIST:

Check the kit to ensure all components are included:



o o o o o

- A) Vinyl Shim - 2
- B) Extrusion Set Screw - 1
- C) Centering Extrusion - 2
- D) Steel Post - 1

Warning:
Always wear safety goggles.

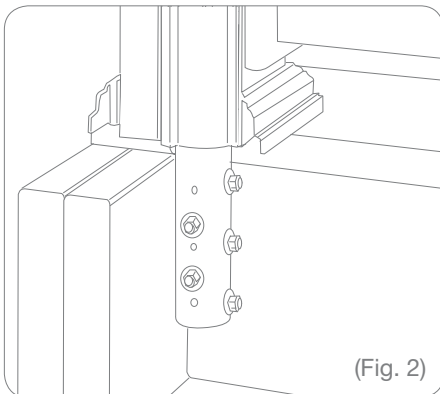
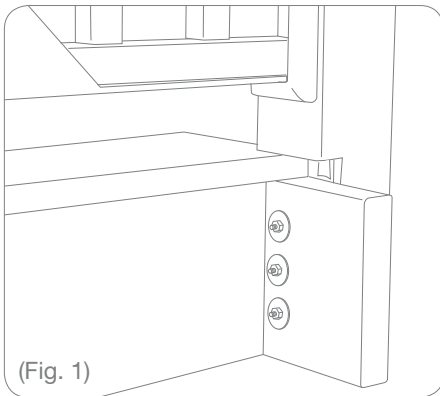
1.

Make sure sufficient mounting structure exists in areas to receive posts. Install blocking where necessary (Figs. 1 and 2).

Tip:
Through-bolting is recommended.

Tip:
For the strongest mount, Endurance structural posts are manufactured to accommodate hardware up to 3/8" in diameter.

Tip:
When attaching to one mounting surface (deck face), utilize three pre-drilled bolt holes (Fig. 1). If attaching to two perpendicular surfaces, utilize all five bolt holes (Fig. 2).



2.

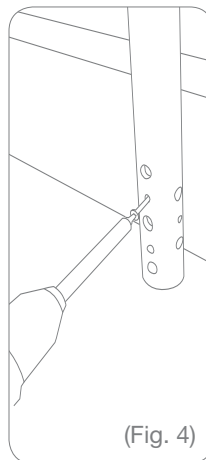
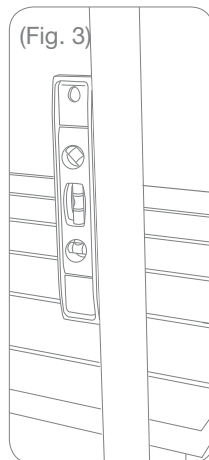
Hold the structural post in place at the proper height* for your application. Plumb the structural post from side to side (Fig. 3).

Secure the structural post to the mounting surface utilizing the two small set screw holes (Fig. 4).

Tip:
When a structural post will act as the transition point between level and stair rail at other than a right angle, be sure to set the post in line with the stair rail. This will allow the use of any Endurance specialty bracket kit on the level rail and standard Endurance stair brackets.

NOTE: Endurance rail kits are manufactured for a 36" finished-rail height with a 2" standard bottom space.

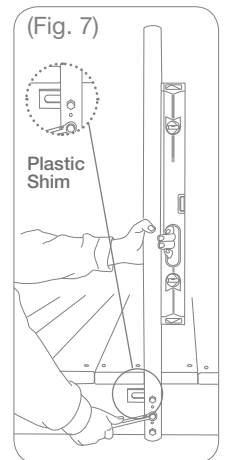
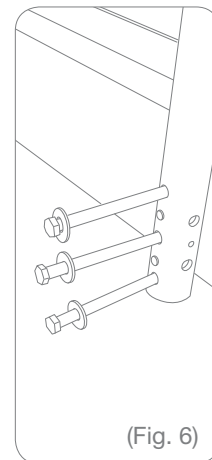
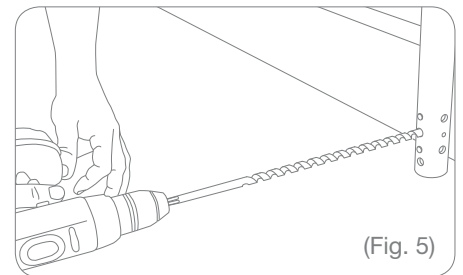
**Southern Building Code maximum for bottom space is 2".*



3.

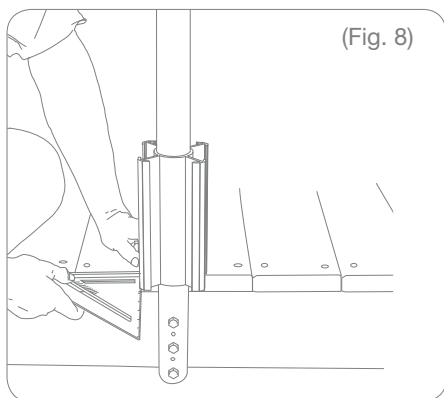
Pre-drill for mounting hardware and adequately secure post in place (Fig. 5). Check and adjust structural post for plumb using supplied vinyl shims (Figs. 6 and 7). Secure the post into permanent position using at least three of the pre-drilled bolt holes.

Tip:
Through-bolting is recommended.



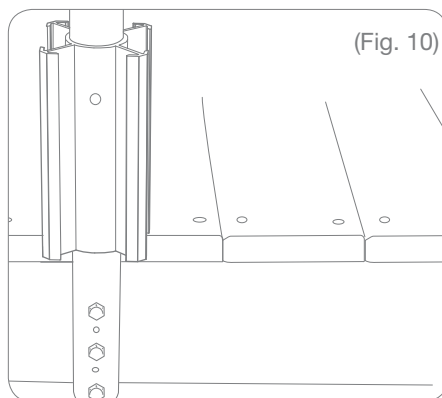
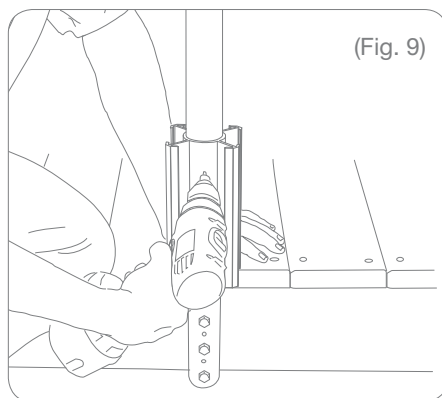
4.

Slide lower centering extrusion onto structural post and place at required height* to accept rail mounting hardware. Align the extrusion with the proposed rail direction (Fig. 8).



5.

Pre-drill with 3/16" bit through lower centering extrusion and steel structural post, and secure the extrusion with set screw provided (Figs. 9 and 10).



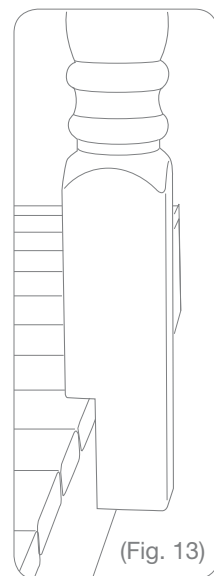
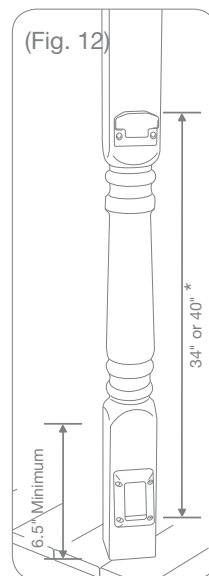
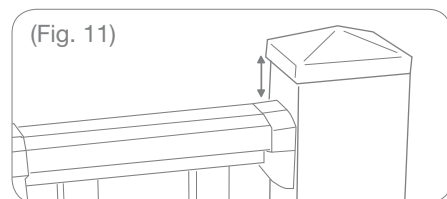
6.

The sleeve should extend above the desired rail height enough to allow clearance for a post cap (Fig. 11). If using a turned vinyl newel sleeve a minimum of 6.5" at the bottom of the post is required to accommodate the mounting brackets. If using a square post sleeve, this does not apply (Fig. 12). Cut the vinyl sleeve to fit.

Tip:

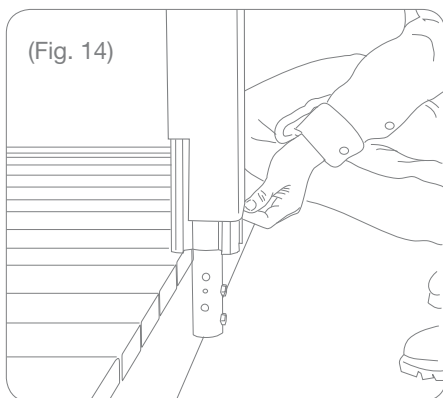
Vinyl sleeve should be notched to extend below the plane of the standing surface to hide the post tail and mounting hardware (Fig. 13).

NOTE: An Endurance 54" post sleeve is recommended for a 38" rail height. Due to the height limitations of the turned vinyl newel sleeve, a 42" rail would leave 4" of sleeve below mounting surface where 6" is recommended.



7.

Slide the cut vinyl newel sleeve over the structural post and the lower centering extrusion installed in Step 5 (Fig. 14).



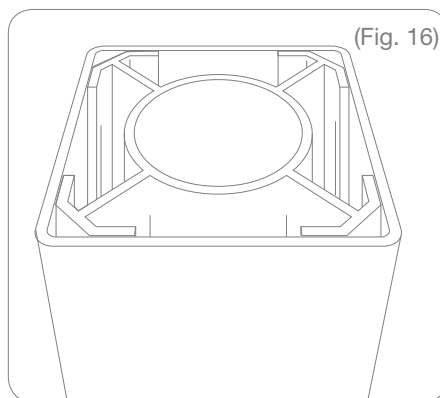
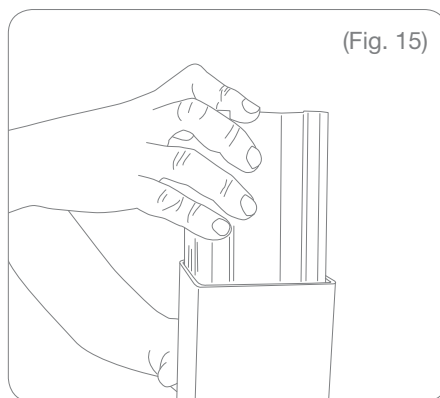
8.

Insert upper centering extrusion into the vinyl sleeve and over the structural post (Fig. 15). Place at the required height to accept rail mounting hardware. The post is now ready to accept the railing installation (Fig. 16).

Tip:

It is not necessary to anchor the top centering extrusion.

NOTE: Do not glue post cap in place until railing installation is completed.



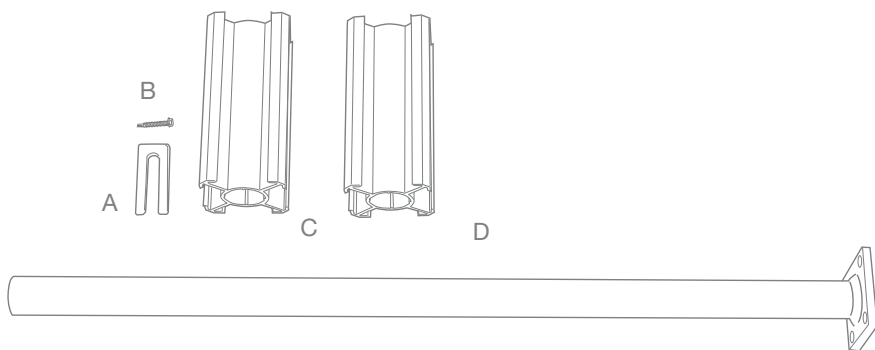
* 36" rail kits maintain 34" bracket spread. 42" rail kits maintain 40" bracket spread (Fig. 12).

FLUSH-MOUNT POST PROCEDURE

- Determine placement of all structural posts before beginning installation.
- To properly install a Deck Rail™ kit with Decorative Cap, the straight (middle) or right angle (corner) posts must be cut and installed at the final rail height (of your choice) including the Decorative Cap, minus 1 5/16".
- Endurance® rail kits are manufactured for a 36" finished-rail height with a 2" standard bottom space.

COMPONENT LIST:

Check the kit to ensure all components are included:



- A) Vinyl Shim - 2
- B) Extrusion Set Screw - 1
- C) Centering Extrusion - 2
- D) Galvanized Steel Post - 1

Warning:
Always wear safety goggles.

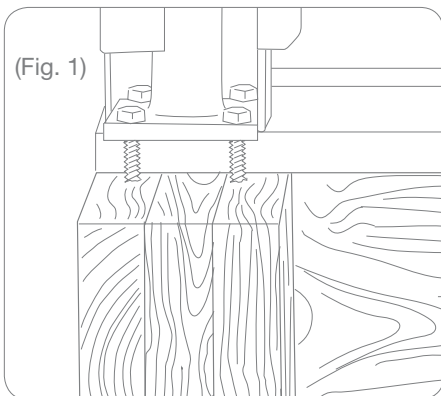
1.

Ensure sufficient mounting structure exists in the areas to receive posts. Install blocking where necessary

Tip:

Through-bolting is recommended wherever possible (Fig. 1).

NOTE: For the strongest mount, Endurance structural posts are manufactured to accommodate hardware up to 3/8" in diameter.



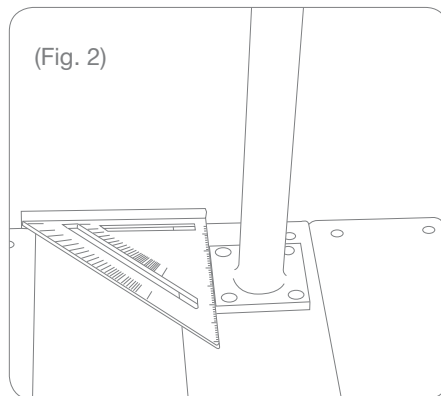
(Fig. 1)

2.

Determine the rail direction and orient the structural post flange base accordingly. The flange base should be perpendicular to the proposed rail direction (Fig. 2).

Tip:

When a structural post will act as the transition point between level and stair rail at other than a right angle, be sure to set the post in line with the stair rail. This will allow the use of any Endurance specialty bracket kit on the level rail and standard Endurance stair brackets.



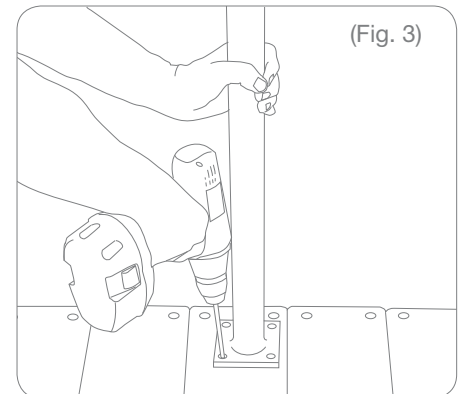
(Fig. 2)

3.

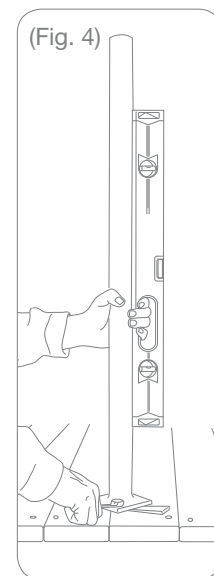
Pre-drill for mounting hardware and adequately secure the post in place (Fig. 3). Check and adjust structural post for plumb using supplied vinyl shims (Fig. 4). Secure the post into permanent position using all four pre-drilled bolt holes (Fig. 5).

Tip:

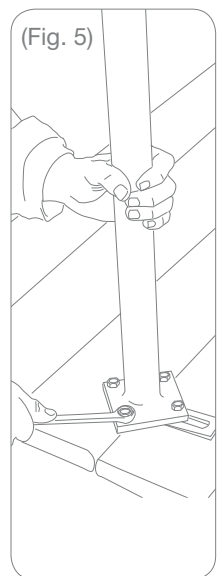
Through bolting is recommended wherever possible.



(Fig. 3)



(Fig. 4)



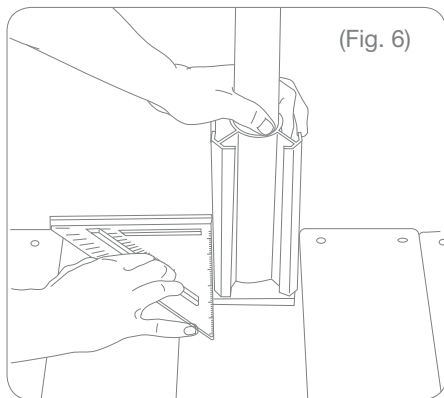
(Fig. 5)

4.

Slide lower centering extrusion onto structural post and place at required height* to accept rail mounting hardware. Align this extrusion with the flange base (Fig. 6).

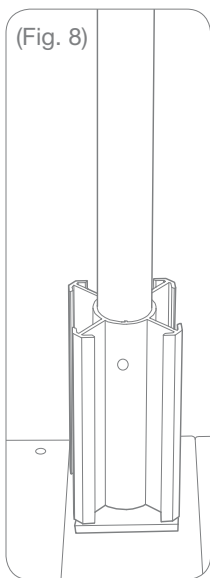
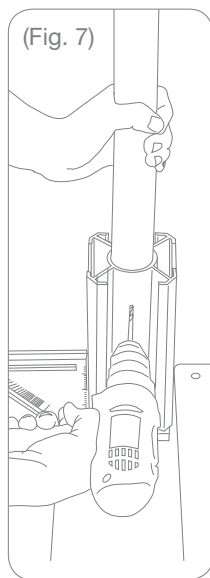
NOTE: Endurance rail kits are manufactured for a 36" finished-rail height with a 2" standard bottom space.

**Southern Building Code maximum for bottom space is 2".*



5.

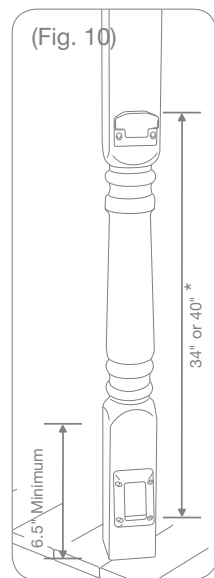
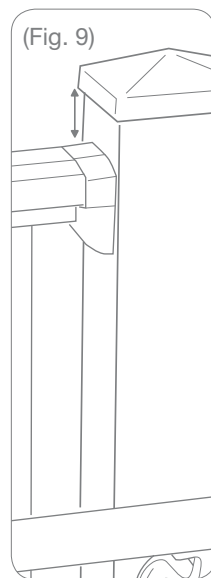
Pre-drill with 3/16" bit through centering extrusion and steel structural post, (Fig. 7) and secure with set screw provided (Fig. 8).



6.

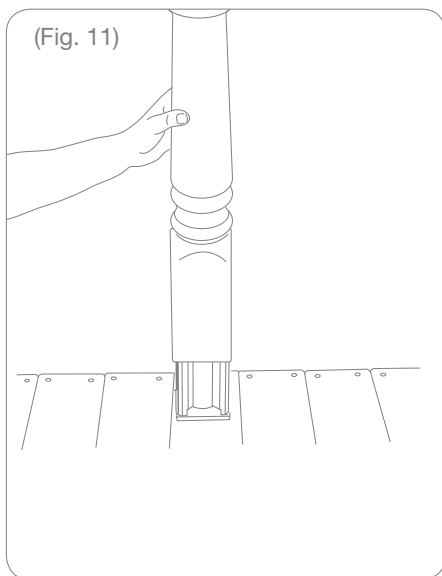
The sleeve should extend above the desired rail height enough to allow clearance for a post cap (Fig. 9). If using a turned vinyl newel sleeve, a minimum of 6 1/2" at the bottom of the post is required to accommodate the mounting brackets. If using a square post sleeve, this does not apply (Fig. 10). Cut the vinyl sleeve to fit.

NOTE: To properly install a Deck Rail™ kit with Decorative Cap, the straight (middle) or right angle (corner) posts must be cut and installed at the final rail height (of your choice) including the Decorative Cap, minus 1 5/16".



7.

Slide the cut vinyl newel sleeve over the structural post and the lower centering extrusion installed in Steps 5 and 6 (Fig. 11).



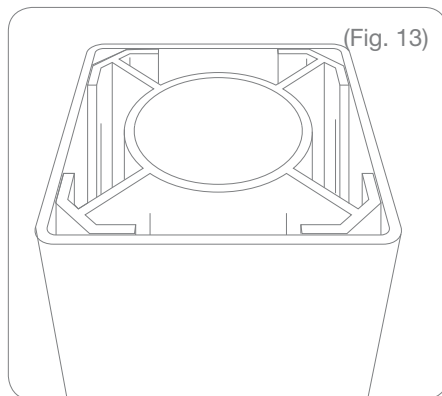
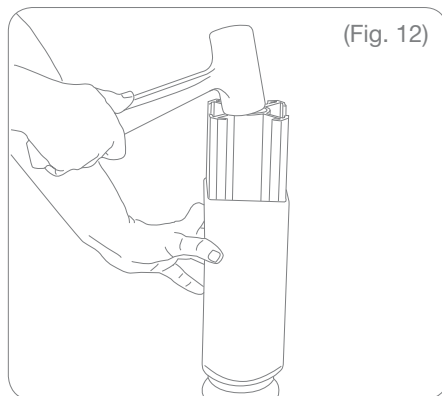
8.

Insert upper centering extrusion into the vinyl sleeve and over the structural post (Fig. 12). Place at the required height to accept rail mounting hardware. The post is now ready to accept the railing installation (Fig. 13).

Tip:

It is not necessary to anchor the top centering extrusion to the structural post.

NOTE: Do not glue post cap in place until railing installation is completed.



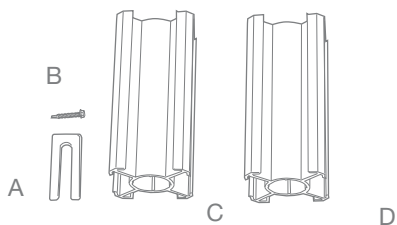
* 36" rail kits maintain 34" bracket spread. 42" rail kits maintain 40" bracket spread.

CORE-MOUNT POSTS

- Determine placement of all structural posts before beginning installation.
- To properly install a Deck Rail™ kit with Decorative Cap, the straight (middle) or right angle (corner) posts must be cut and installed at the final rail height (of your choice) including the Decorative Cap, minus 1 5/16".
- Endurance® rail kits are manufactured for a 36" finished-rail height with a 2" standard bottom space.

COMPONENT LIST:

Check the kit to ensure all components are included:



o o o o o

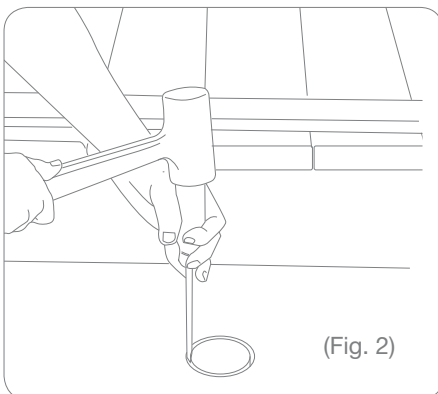
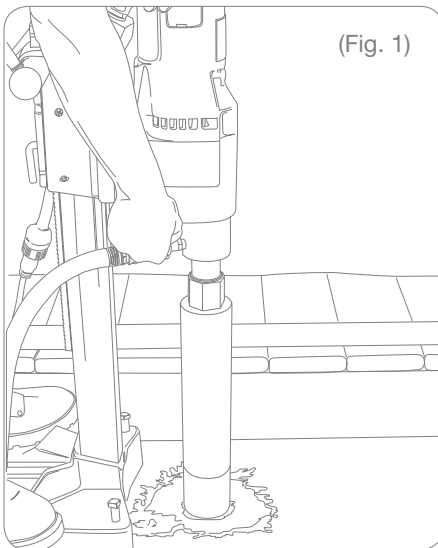
- A) Vinyl Shim - 2
- B) Extrusion Set Screw - 1
- C) Centering Extrusion - 2
- D) Steel Post - 1

Warning:
Always wear safety goggles.



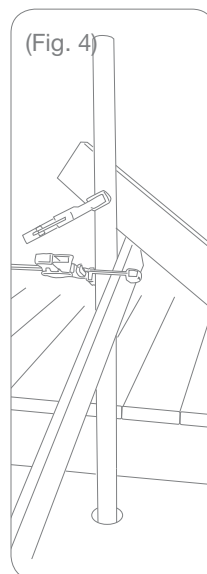
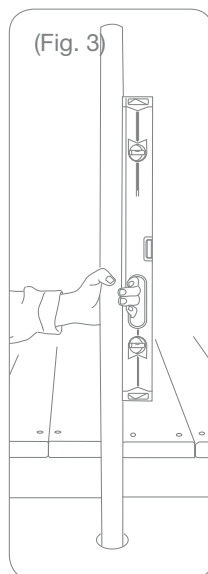
1.

Consult your hydraulic cement manufacturer's specifications for core hole diameter and depth, based on the final rail height for your installation (Fig. 1). After depth and diameter have been decided drill and remove the core from the hole (Fig. 2).



2.

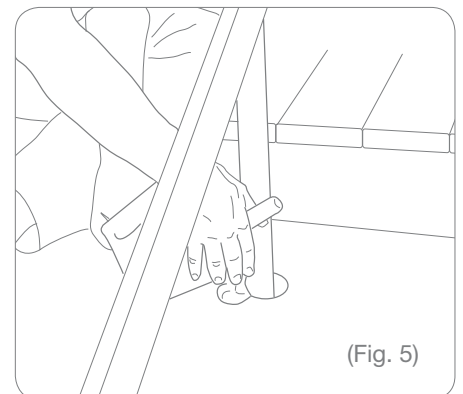
Place post in the hole and adjust for plumb (Fig. 3). Secure in place using clamps and wood supports (Fig. 4).



3.

To complete post installation, mix and pour hydraulic cement as per manufacturer's instructions (Fig. 5).

After post has been set, follow the instructions for Endurance flush-mount structural post, beginning with Step 5.





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