



Aristone® Column Information

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Column Configuration

One Piece Columns:

- Structural Concrete

These are one-piece solid concrete columns, typically used in load bearing situations. To provide structural integrity the columns are cast with a rebar cage in the center. The reinforcement consists of four (4) #4 (18" base or smaller) or #5 (24" & 21" base) rebar running the length of the column, and extending beyond the base of the column for approximately 12". The four (4) rebar are held together in a typical square configuration frame with 8" x 8" (24" & 21" base columns) or 6" x 6" (18" & 16" base columns) square stirrups fashioned out of #3 rebar.

A 3/4" x 6" straight coil loop insert (used as a lifting and/or anchoring device) is cast in the top of the column, in the center of the capital.

Manufacturers S. W. L. (Safe Working Load) for this insert is 3,000 lbs.

If it to be used for lifting a correct lifting plate must be used.

All structural information is available by request or on our website at www.aristonedesigns.com

Smaller columns are reinforced according to their size, while the strength of the concrete remains the same for all of our products.

When in doubt about the load bearing capacity of our columns, consult with your structural engineer.

****IT IS VERY IMPORTANT THAT A BACK-UP CHOKER IS USED DURNING THE INSTALLATION OF STRUCTURAL CONCRETE COLUMNS****

****PLEASE REMEMBER OUR STRUCTURAL COLUMNS WEIGH UP TO 2,500 LBS AND SHOULD ONLY BE INSTALLED BY A LICENSED PRECAST INSTALLATION CONTRACTOR****

Installation:

Poured Concrete footing:

A + - 12" deep void large enough to accept the rebar cage should be cast into the center of the footing or base onto which the column will be installed (a standard 5 gallon bucket works best). Before the column is set the void is filled with concrete and the rebar that extend out the bottom of the column is set into the wet cement. The column is then plumbed and leveled. Please check with local building codes

Concrete Block Footing:

Leave the center cell of your concrete block footing un-grouted. Before the column is set the void is filled with concrete and the rebar that extend out the bottom of the column is set into the wet cement. The column is then plumbed and leveled.

- Plaster

One-piece plaster columns are for interior use only and have no load bearing capability. The typical wall thickness is +- 1". It is important that plaster columns be installed a minimum of 4" off the floor to avoid damage from brooms, kids, vacuum's etc.

- GFRC

Glass Fiber Reinforced (GFRC) columns are cast horizontally in 2 pieces and can be joined at the factory when a one-piece column is desired. These are non-load bearing

Split (SP) Columns

- All split (SP) columns are supplied in halves and must be field-finished with thin set mortar, or equal, to eliminate joint line seam for paint, if desired.
- Extension columns are recommended to be installed after scratch-coat, prior to brown and color coat stucco. Interior columns are recommended to be installed after drywall, but before tape and float operations.

- For ease of installation, set only one-half of column first, allowing adhesive to fully dry before attempting to set second column half (approx. 24 hrs).
- Column half must be set, and leveled in a bed of thin set mortar, or epoxy at both foot and head attachment area surfaces, with 1/4" open seam joint.
- To avoid post-set movement of first column half, screw in cleat stock to anchor column detail in place until adhesive dries. Remove block cleats when dry.
- As first column half is now level and set, apply 4-6 "dabs" of adhesive per side of seam to "tack-down" installation of second column half. Set second column half in place.
- Once second half is level and set, tie full column around with ratcheting clamp, equal and tighten. Let adhesive set 24 hours.
- Remove clamps or equal and hand trowel mortar into joint seam to desired finish. Joint fill may require finish sanding when dry to achieve a seamless surface.

Half Columns (H)

Half columns are usually installed against a wall and are available in Concrete, Plaster and GFRC.

Three Piece Fluted Columns:

- Our three piece fluted columns (Corinthian, Ionic & Tuscan) come with a 21 1/2" square base with a 11 1/2" diameter void in center, a solid structural shaft (see solid column section for structural information) and a 19" square capital with a 8 1/2" void in the center. The rebar cage extends approximately 12" out of the top and bottom of the solid shaft.
- Installation
The base is put into position and the void is filled with grout. The solid shaft is then placed on top of the base and plumbed. The capital is then installed onto the top of the shaft and grouted solid, any inserts should be placed into the top of the column at this time. Please make sure everything is plumb and level as you assemble the column.

Stackable Sectional Columns:

- Our stackable sectional Tuscan columns come in various base sizes and are available in concrete or GFRC. The center void +/- 4" is less than the shaft diameter for concrete columns and +/- 2" less than the shaft diameter for GFRC. These are typically used in non-structural applications and to wrap around your structural member.