

Endura-Stone™ Columns | Installation Instructions



1) Measure the total distance from the bottom of the beam to the platform.



2) Using a jack and post, jack up the beam only enough to remove the existing post, no more than 1/4".



3) Determine the top centerline and mark it on the beam.



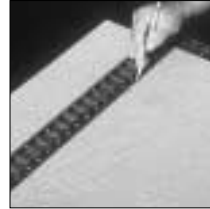
4) Hang a plumb bob from the top centerline to determine the bottom centerline.



5) Mark the bottom centerline point.



6) Using a square, draw a centerline perpendicular to the outside edge of the platform.



7) Draw a centerline parallel to the outside edge.



8) Measure from the top of the column to the proper length and make a series of marks around the column shaft.



9) Using a piece of cardboard as a guide, draw a line all the way around the column.



10) Cut the column using an abrasive circular saw. CAUTION: Because the column is load bearing, its top and bottom edges must be level to achieve full, even contact between the load surfaces and the shaft. Use a rasp to level as required.



11) Mark and drill clearance holes on the top and bottom of the column to accommodate bolts for the 1" L-brackets. (L-brackets sold separately.)



12) Slide cap over the top of the column to rest on the neck ring, then slide the base onto the column.



13) Secure two L-brackets on the top and bottom of the column using through bolts. Do not use screws and do not over tighten.



14) Apply construction adhesive to the top and bottom of the column.



15) Put the assembly in place and plumb. Make sure that the load is centered over the column shaft and evenly distributed. Secure L-brackets to the platform and beam.



16) Apply construction adhesive to the cap and base.



17) Align the square part of the base with the platform below and push the base down until secure.



18) Slide the cap up to the beam and push up until secure. Screws may be used to secure the cap to the beam and the base to the platform. (When using screws, first drill pilot holes and fill with putty to cover screw heads.)



19) Apply caulk to gaps between the cap and base and the column shaft.



20) Prepare the column for painting by sanding lightly with 120-grit or finer wet/dry sandpaper.

21)



Remove dust by wiping the column, cap, and base with soap and water.

22)



Paint the column with a high-quality oil-base or acrylic-latex paint.

Additional Instruction

1. Measure the exact floor to ceiling height using a plumb to insure accuracy.
2. Cut the bottom of the column shaft as needed to achieve the measurement taken in step 1. Use an abrasive blade. **CAUTION:** Because only the shaft is load bearing, its top and bottom edges must be level to achieve full, even contact between load surfaces and shaft**. Use a rasp to level as required.
NOTE: All height adjustments must be made from the bottom of the shaft. For the cap to fit correctly, the top of the shaft must be trimmed only enough to achieve level contact with load surfaces, or to achieve correct installation of decorative capitals.
3. Slip one-piece cap and base onto column shaft (see figure 1). The two-piece cap and base are attached after the shaft is installed. If this column is installed where it could collect water or debris, the top of the column and cap **MUST** be flashed (covered) to prevent such collection. Use lead, copper, aluminum, galvanized, etc. flashing cut slightly larger than the cap, and fold the edges down over the cap after step 5. It is not permissible at any time to fill the interior of the column shaft with sand, concrete or any other material.
4. If installation requires some method of securing the column in place before load is applied, use *Endura-Stone™* Installation Kit #71760 (see figure 2)
NOTE: Always drill clearance holes in columns and secure with through-bolts — **DO NOT USE SCREWS** — and do not over-tighten.
5. Apply standard construction adhesive to flashing (if used), top surface of cap and bottom surface of base; then tip loosely assembled column shaft into position, align flashing (if used), and lower load onto shaft to hold it in position. Align square part of cap with load surface (or flashing) above and push up against it to secure. Align square part of base with load surface below cap and push down until it is secure.
6. Caulk gaps between shaft and cap and base as desired.
7. All round columns are factory sanded. All surfaces of cap and base, square columns, and the concave area at the bottom of the flutes on fluted columns require preparation by sanding with 80 to 100 grit sandpaper. Sand to remove all glossy areas. Always follow the instructions of the paint manufacturer.
 - A. To paint with oil base paint, remove all dust and dirt by thoroughly wiping column with cleaner compatible with your chosen paint. Allow to dry completely. Use a high quality oil base paint. Primer is not needed if the oil base paint is the desired color.
 - B. To paint with acrylic latex paint, we recommend using a high quality primer like Sherwin-Williams® PrepRite® Anchor-Bond and a topcoat like Sherwin-Williams® SuperPaint®. Remove all dust and dirt before painting by thoroughly cleaning with a cleaner like Simple Green® or isopropyl alcohol. Allow to dry completely before priming.
8. Columns may be split to cover lally columns, posts, etc. using an abrasive Carborundum or carbide blade. We recommend use of our Split Kit #72665 for reassembly - instructions are included with the kit. NOTE: Split columns are not load bearing.

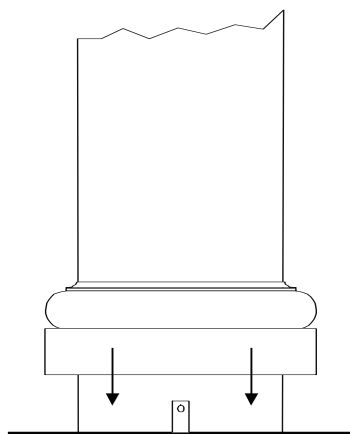


Figure 1

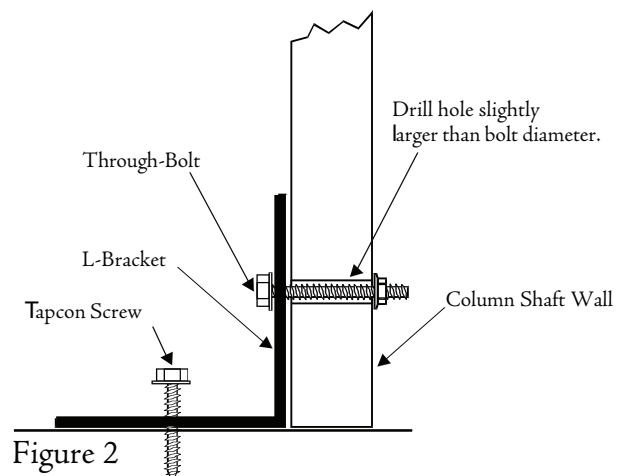


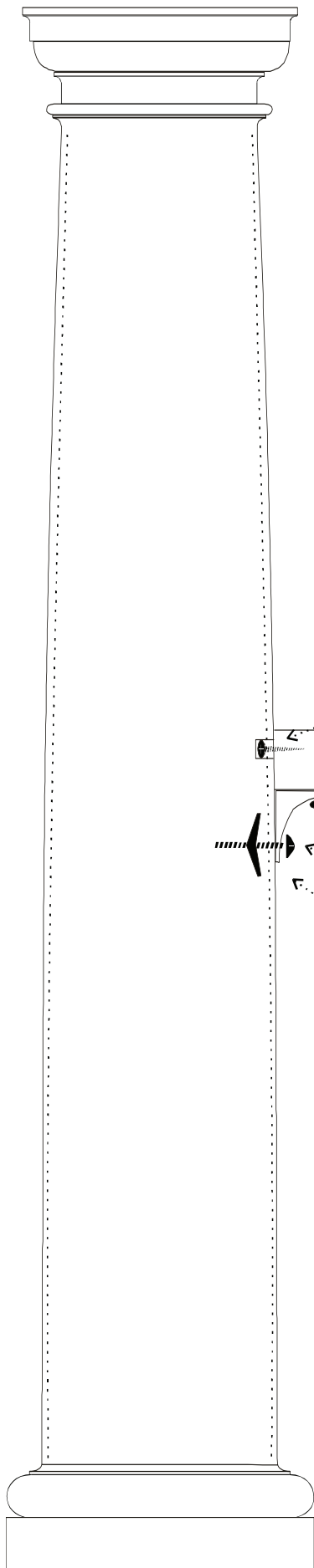
Figure 2

*Please check your local building codes to determine whether *Endura-Stone™* columns are applicable for your needs.

**Installing column shaft off-center from overhead beam will reduce load bearing capacity.

Endura-Stone™ Columns | Attaching Handrails Instructions

1. Trace the curve of the column (a contour gauge is helpful) at the desired rail height.
 2. Copy the curve to the end of the rail which will be attached to the column.
 3. Carefully cut the end of the rail to ensure an attractive, tight fit.
 4. Attach metal Angle Bracket to the bottom of railing using rust proof wood screws.
 5. Mark desired spot on column shaft.
 6. Drill pilot hole in wall of column, slightly larger than toggle bolt.
 7. Attach angle bracket to column wall with toggle bolt. The toggle bolt will spread any force applied over a wide area of the inside of the column. Do Not Over-tighten!
- (Note: the stabilizer screw is not included. It would be used to prevent rotation of the rail. A hole the same size as your screw head is drilled through the column. The screw is driven into the end of the rail. The screw head slips into the hole in the column shaft, keeping the rail from turning.)



Stabilizer Screw
if needed

Wood Screw

Metal Angle
Bracket

Toggle Bolt