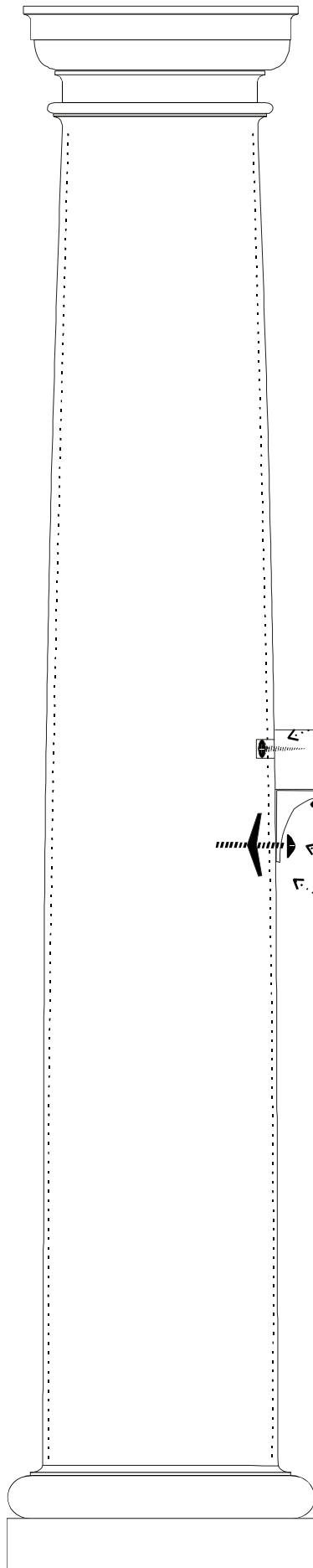


# Instructions for Attaching Handrails to Turncraft Poly-Classic® Columns

## Rail to Column Kit #71758



Stabilizer Screw  
if needed

Wood Screw

Metal Angle  
Bracket

Toggle Bolt

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.)



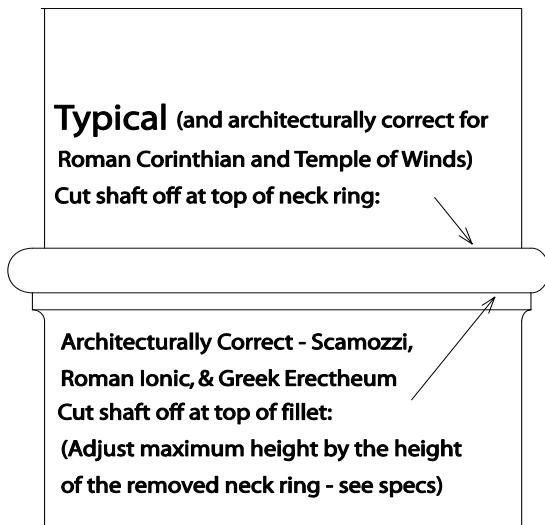
## OPTION ONE Poly-Classic Capital Installation Instructions

Our new expanded line of Ornamental Capitals for Poly-Classic columns has prompted us to include more installation instructions to assist customers in deciding how they want to design their columns, as well as help in the actual final installation.

This page deals with capitals chosen from page 8 only: the Option One capitals. These are made of either Poly/Resin or Composite Plaster. Poly/Resin caps have a plug built-in to connect to the column shaft, and the capital itself carries the load of the overhead structure. For Composite Plaster caps without the built-in plug, the plug is a separate FRP piece that connects to the shaft, and the capital slides over the plug, so the plug carries the load instead of the cap.

For POLY-RESIN caps, the top of the shaft **MUST** be cut off before installing the capital, unlike the Option Two caps (pages 11-12). For simplicity, most installers choose to trim the shaft flush at the top of the neck ring molded in the shaft. For architecturally correct installations, if the capital is Roman Ionic, Greek Erectheum or Scamozzi, the installer may choose to trim the shaft at the top of the flat ring (fillet) directly below the neck ring. (Pricing tables on page 8 show the height adjustment of the assembled column based on the simpler trimming at the neck ring. For architecturally trimmed columns, the overall height of the column would be reduced by the thickness of the neck ring that is being removed.)

### TRIMMING shafts for use with POLY/RESIN CAPS:

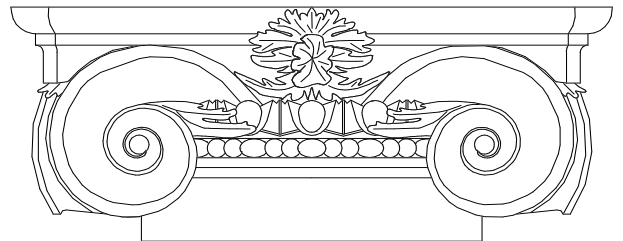


DO NOT TRIM THE TOP OF THE SHAFT if you are using a COMPOSITE capital. The plug attaches to the neck of the column shaft, and will be too short if the shaft is trimmed.

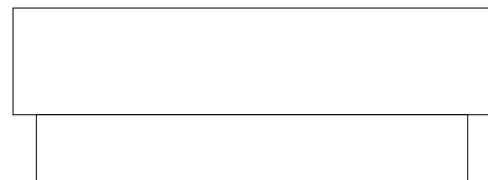
The sleeve of the cap or the plug should be screwed to the column shaft. For composite plaster caps, the cap should also be screwed to the plug. And the top of the caps should be screwed to the ceiling/soffit.

When attaching Poly/Resin caps or the FRP plugs to the shaft, or attaching the caps to the ceiling/soffit or plug, always pre-drill and countersink holes, and use screws that won't rust.

### POLY/RESIN CAPITAL WITH NECK SLEEVE:



### FRP PLUG FOR COMPOSITE PLASTER CAPS:



Plug (similar to above) will be attached to shaft neck to achieve total height required. Plug + neck must be trimmed to 1/8" taller than capital so plug + neck will carry the weight of the load.

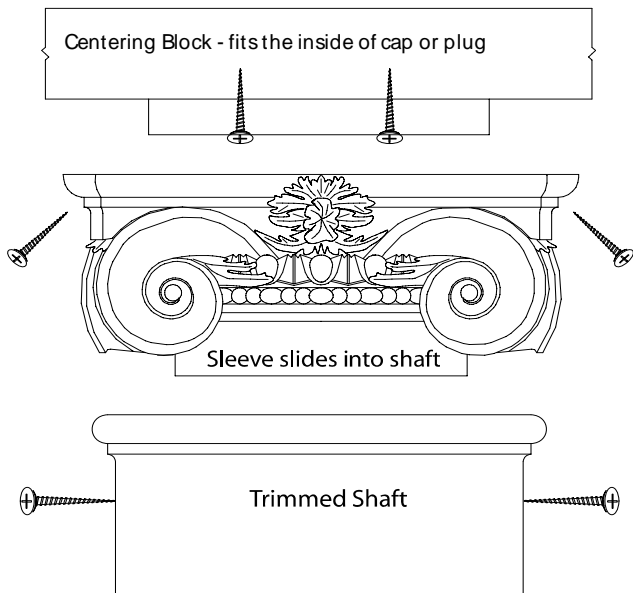


# OPTION ONE Poly-Classic Capital Installation Instructions (continued)

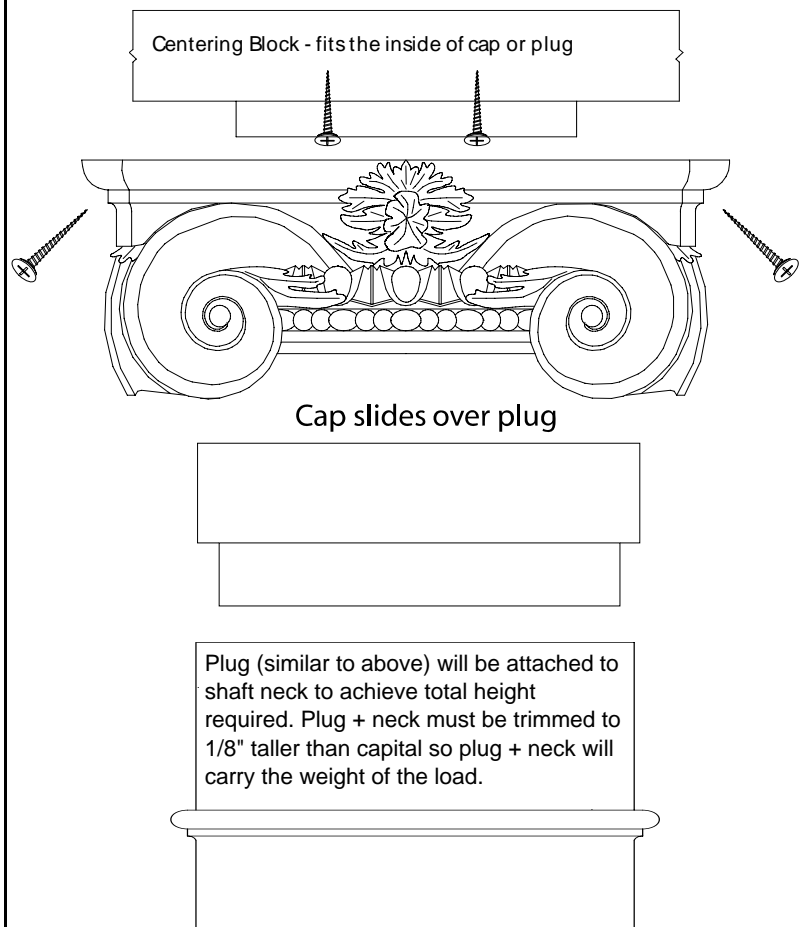


- 1) To help keep the top of the column in the correct place, you may cut a centering block to fit inside the top of the capital or load plug. Attach block to ceiling/soffit.
- 2) If using POLY/RESIN capitals, trim the shaft accordingly. If using COMPOSITE capitals, DO NOT TRIM the shaft. The plug will be connected to the top of the shaft neck to extend the neck to the height needed for the capital.
- 3) Set capital or load plug on top of column shaft. Pre-drill and countersink screws to attach capital or plug to the shaft. Apply construction adhesive or caulking to sleeve, insert in shaft, and attach with non-corrosive screws.
- 4) If the capital is the composite plaster, slide the cap over the plug. Then pre-drill and countersink holes near the bottom of the cap and attach the cap to the load bearing plug. Capital should be primed/finished according to the instructions shipped with the cap before installation.
- 5) Apply construction adhesive or caulk as needed to the top of the cap. If you have a composite cap, flashing should be used to prevent moisture from setting on top of the cap. All column installations should be flashed if they are placed in an area where water, debris, etc. could accumulate inside the shaft.
- 6) If necessary, jack up the roof where column is to be installed. Raise the column into place, slipping the top over the centering block.
- 7) Pre-drill and counter sink through the capital abacus (top) and attach to the ceiling/soffit with non-corrosive screws.
- 8) Attach column at base (see standard column installation instructions). Fill all countersunk screw holes, seams, etc. with caulk. Sand, clean and finish according to standard instructions.

**POLY/RESIN CAPITALS:**



**COMPOSITE PLASTER CAPITALS W/PLUG:**



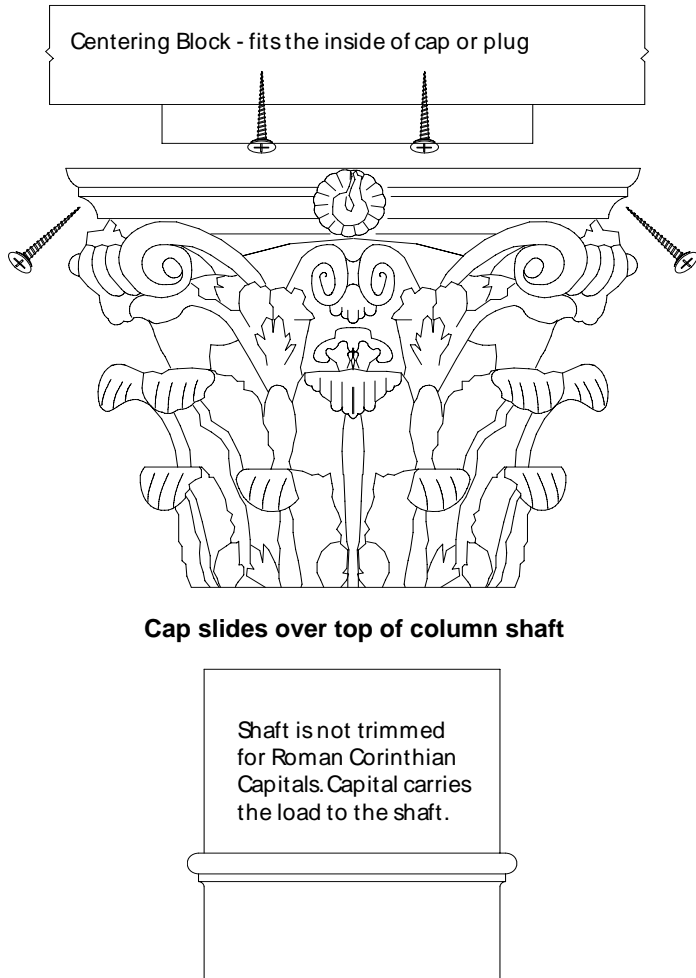
(Drawings NOT TO SCALE - illustrations only)



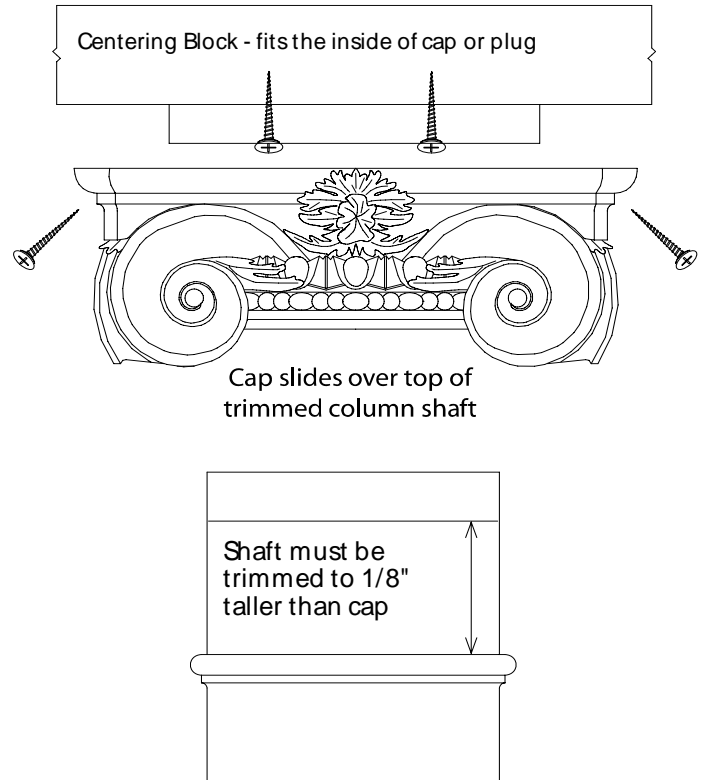
## OPTION TWO Poly-Classic Capital Installation Instructions

- 1) To help keep the top of the column in the correct place, you may cut a centering block to fit inside the top of the capital (Roman Corinthian caps) or shaft (Scamozzi caps).
- 2) For Scamozzi capitals, slide capital over top of column shaft. Mark a line around the shaft 1/8" above the top of the cap. Remove cap. The column shaft must be trimmed at that line. The 1/8" of shaft above the capital is required to transfer the load to the shaft, not the cap. (Roman Corinthian capitals will carry the load: step 2 is not required)
- 3) Slide capital over top of column shaft. Pre-drill and countersink screws to attach capital or plug to the shaft. Pre-drill and countersink through the cap and shaft, and use non-corrosive screws to attach cap to the shaft.
- 4) Apply construction adhesive or caulk as needed to the top of the cap. All column installations should be flashed if they are placed in an area where water, debris, etc. could accumulate inside the shaft.
- 5) If necessary, jack up the roof where column is to be installed. Raise the column into place, slipping the top over the centering block.
- 6) Pre-drill and counter sink through the capital abacus (top) and attach to the ceiling/soffit with non-corrosive screws.
- 7) Attach column at base (see standard column installation instructions). Fill all countersunk screw holes, seams, etc. with caulk. Sand, clean and finish according to standard instructions.

### ROMAN CORINTHIAN CAPITALS:



### SCAMOZZI CAPITALS:



(Drawings NOT TO SCALE - illustrations only)