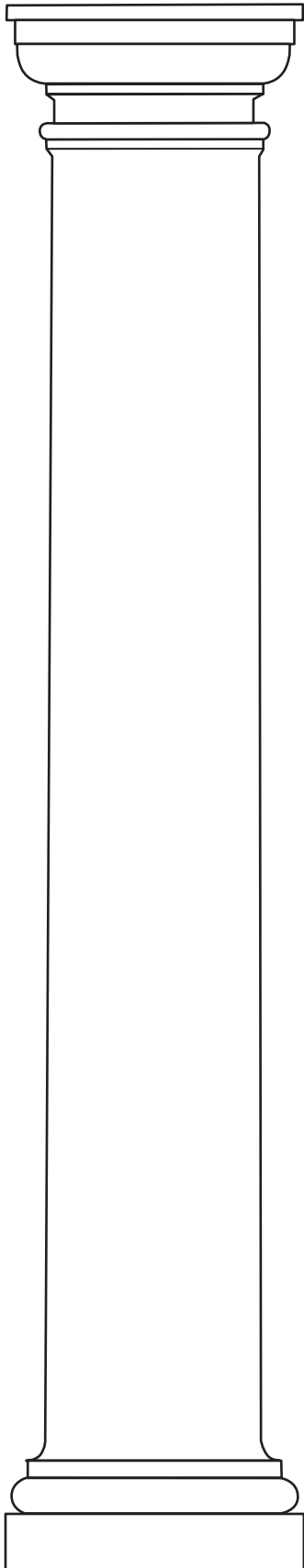
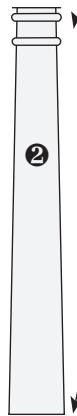
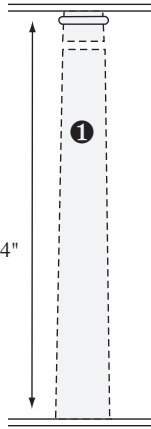


COLUMN INSTALLATION PROCEDURES



1. Measure the net opening length where the column is to be used. Install brace so that the opening is slightly increased for easy installation of the column.

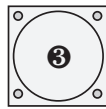


NET OPENING + 1/4"

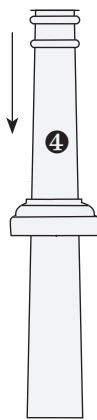
TRIM IF NECESSARY

2. Trim the top of the column *if necessary*, so 1/8" to 1/4" of the column extends beyond the cap, so the load rests on the column, not the cap. Trim the bottom to fit the overall opening determined in step number 1. Lightly sand the column shaft and the cap and base with 100 grit sandpaper to insure good paint adherence.

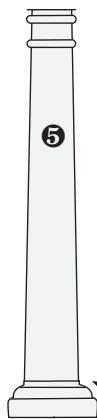
Note: Column may be trimmed with an abrasive saw blade; a fine-toothed hand saw may also be used.



3. Drill holes in corners (pre-marked) of the cap and base for screws and/or bolts if you elect to use the latter. Be sure to use construction adhesive whether or not screws and/or bolts are used.



4. Place base on the column by sliding it down from the top end of the column as illustrated.



5. Stand column into its vertical level position. Slide base to floor. Mark a pencil line around the column at the top of the base, and...

DRAW LINE

PLEASE REFER TO BACK FOR INFORMATION ON INSTALLING SPLIT COLUMNS.

6. Slide the base up the column, out of the way.



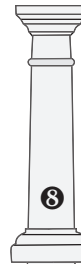
ADHESIVE



7. Run a bead of construction adhesive around top of column above bearing shoulder in a zig-zag pattern and install cap with a twisting motion.

PENCIL LINE

8. Spread adhesive on all bearing surfaces of both cap and base making sure to leave no gaps on edges.



ADHESIVE



TOP OF CAP

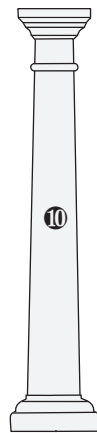
9. Run a bead of construction adhesive around the shaft at the pencil line.



PENCIL LINE

ADHESIVE

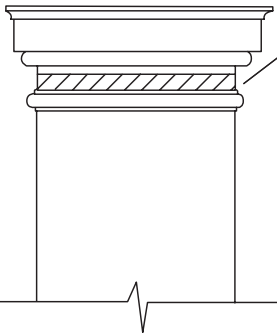
10. Stand the column into its permanent position, align the cap and level the column. Remove the brace (see No. 1) and allow the full weight onto the column. Slide the base down the shaft and align it with the cap. Press base down firmly to assure thorough construction adhesive contact. Be sure the load is spread evenly over the bearing surface of the column.



ALIGN

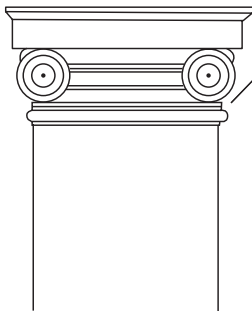
11. Install screws and/or bolts. Caulk between the columns and caps and base to assure the optimum, long life installation. Be sure to lightly sand with 100 grit paper. Clean column surface with a damp rag and apply a high quality grade of paint.

INSTALLING DECORATIVE CAPITALS



CUT COLUMN HERE.

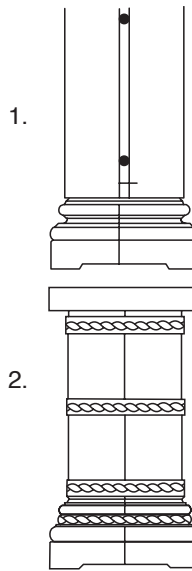
1. MillCast columns and decorative capitals are load bearing to the levels by size as stated in our brochure. As such, no wooden plug is required when installing a decorative capital. Simply cut the column just above the collar bead at the top of the shaft.



adhesive

2. Be sure to apply a good grade of construction adhesive between the top of the shaft and the bottom of the decorative capital, center the decorative capital and complete the installation instructions included with each column.

INSTALLING SPLIT COLUMNS



1. Join halves with epoxy. Hold capital and base halves a few inches apart while epoxy is applied. Bring halves together and clamp with rope or other device.

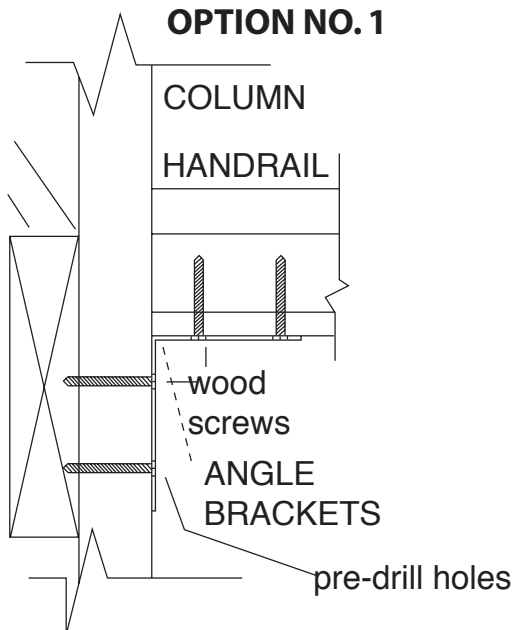
2. Place straps not less than 24" apart along the length of the shaft. To prevent damage, place strips of carpet beneath straps and tighten clamps. Let stand for a minimum of 24 hours. (Follow epoxy manufacturer's recommendations for clamping time under cool or moist conditions.) Check to be certain there is complete contact all along the joint, then remove excess epoxy. Smooth Bondo over joint and sand for a professional finish.

NOTE: IT SHALL REMAIN THE RESPONSIBILITY OF THE CUSTOMER TO INSURE THE COLUMNS PURCHASED ARE DESIGNED FOR THEIR PARTICULAR INSTALLATION.

INSTALLING HAND RAIL

OPTION NO. 1

liquid nails
wood blocking



OPTION NO. 2

