

# CONTEMPARY VINYL RAIL INSTALLATION GUIDE

## DECK BOARD CAP RAIL

### OVER THE POST

Lay out all the cap rails on top of the post to verify fit and make adjustments as required.

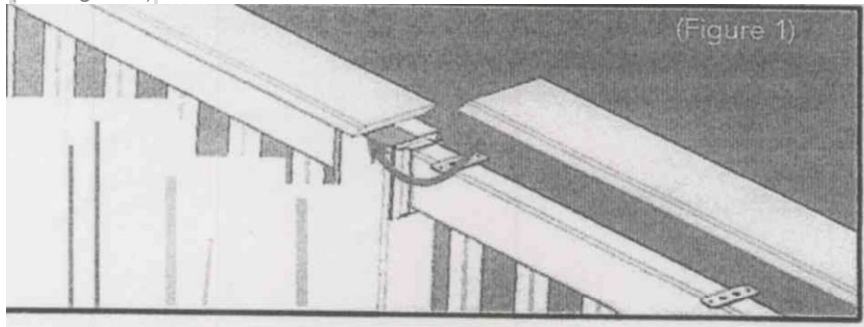
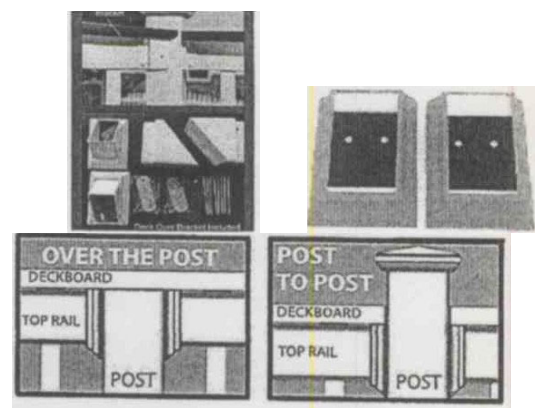
NOTE: Make sure that the cap rails are centered on the post tops so as not to expose the top edge of the post. If installing cap rail other than a 90° corner, **make** sure railing posts are set at proper angle so cap rail miter will cover top of railing post.

The top cap rail should be installed only after all of the 2" x 3-1/2" rail sections have been installed. Measure and plan out how the top cap rails will be installed. We recommend 45° miter joints at corners and 22 1/2° scarf joints at in-line joints when joining cap rails together. All joints should occur on top of the posts. Joints should be sealed with glue or caulk per cap rail manufacturer's specifications

### Butting Deck Board Cap Rail

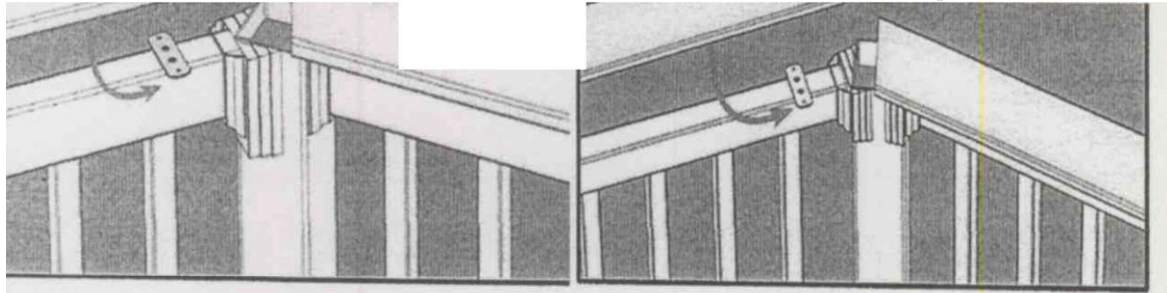
The cap rail should be installed with 22 1/2° scarf joints at in-line joints when joining cap rails together.

All joints should occur on top of the posts. Joints should be sealed with glue or caulk per deck board manufacturer's specifications (see Figure 1)



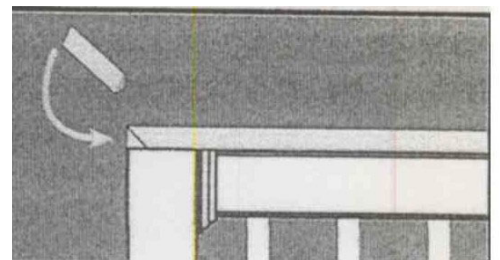
### Deck Board Cap Rail *with* Bracket Adapters - 45° Corner Installation

When your installation calls for 45° corners Capital recommends laying out the deck board cap rail with extra care to insure post remains covered when 45° corner deck board cap rails installed. recommends 45° miter joints at corners. Railing bracket adapters and top of railing bracket trim ring must both be flush with top of post. All joints should occur on top of the posts and joints should be sealed with glue or caulk per deck board manufacturer's specifications (see pictured below).

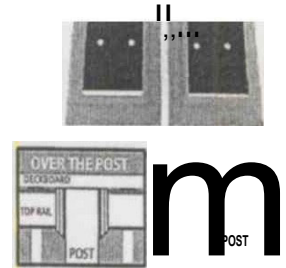


### Deck Board Cap Rail - End of Run

If end of run is not visible, end of deck board can be left exposed. When deck board end is visible, a short-mitered piece can be used to terminate. The short piece can be fastened with glue and a trim head S.S. screw or an angle bracket on the inside channels. Remember to pre-drill cap rail to prevent splitting.



# CONTEMPORARY VINYL RAIL INSTALLATION INSTRUCTIONS

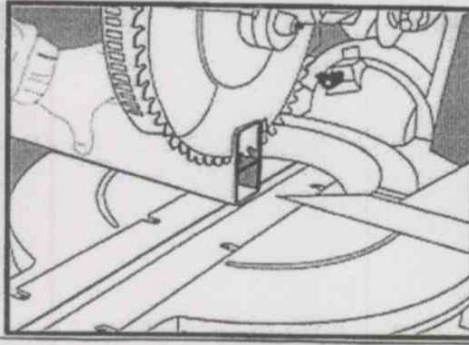


## DECKBOARD CAP Rail -

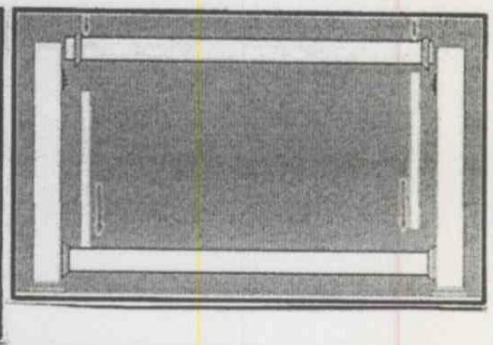
It is the responsibility of the Installer to meet or exceed all code and safety requirements, and to obtain all required building permits. These instructions are only a guide and may not address every circumstance. The deck and railing installer should always recognize and use proper installation techniques for each application.



**TOP RAIL**• Measure between mounting brackets. If post is plumb, top rail should be the same length as bottom rail. Make sure distance from baluster pocket to post on each end is the same for both top and bottom rail.



Cut top rail including aluminum insert to length to match bottom rail. cut vinyl and Aluminum reinforcement at the same time to assure equal measurements.



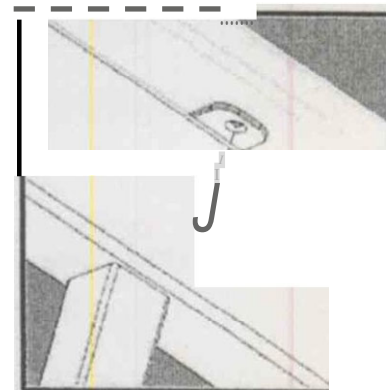
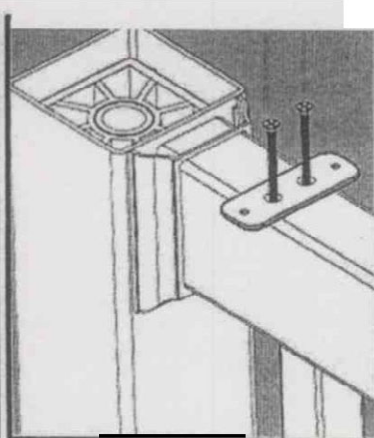
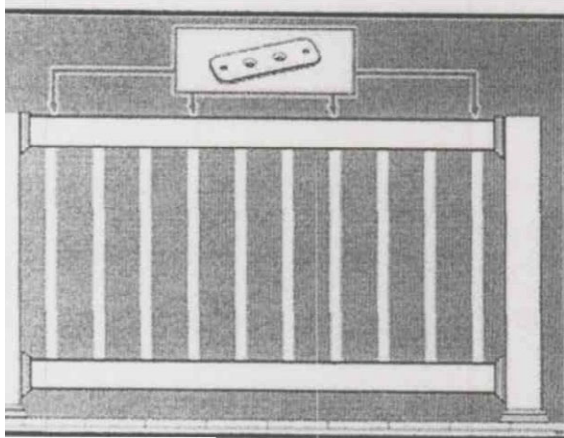
Slide precut bracket trim ring on both ends of top rail. Insert end balusters into top rail and be sure rail slides down into Mounting brackets side guides.

### OVER THE POST ONLY

Slide pre-cut bracket trim ring up to mounting bracket but **DO NOT LOCK BRACKET TRIM RING IN PLACE ON MOUNTING BRACKET**. Mark post at top of trim ring with a square to ensure a straight line Remove top rail balusters and bracket trim ring.

Cut mounting post at mark from previous step Repeat on opposite post (**OVER THE POST ONLY**). Insert all balusters into bottom rail and starting at one end of rail insert balusters into top rail. Be sure top rail slides down into mounting brackets side guides.

Insert one (1) #10 X 1" self-tapping pan head screw through mounting bracket and into vinyl rail and aluminum insert. **ONLY ONE (1) SCREW PER SIDE IS NEEDED.** NOTE: If bracket trim ring will not snap on, make sure mounting screws (bracket to post connection) are not over tightened.



Install two (2) aluminum mounting plates on top of rail 2" from each post with two (2) #8 x2-1/2". Install remaining two (2) aluminum mounting plates at quarter points on top rail. Deck board cap rail should be installed only after all of the 2" x 3 1/2" rail sections have been installed.

Install two (2) #10 x 3/4" square drive flat head screws in each plate through countersunk holes and into deck board. Continue this process until all deck board cap rails are installed.

# Stair Rail Installation Guide - Contemporary Series

These Instructions assume that steps have a typical angle between 32° and 35° and that the posts are plumb. These instructions explain how to install stair rail in a typical application. Always check with your local building code official for regulations specific to your area.

## STEP 1

Unbox your section of railing making sure you have all parts and pieces needed to assemble.

## STEP 2

Temporarily remove aluminum Insert from the bottom rail. Lay the rail on the steps beside the posts. Make sure the routs are facing upwards. Measure the distance from the post to the first rout and center rail between posts.

## STEP 3

Using the side of the posts as a guide, scribe a line on the rail at both the top and bottom of rail, allowing about 1/8" on each end for expansion.

## STEP 4

Reinsert aluminum Insert Into bottom rail and cut and cut on the scribed lines. The top rail can be cut with aluminum Insert Inside.

## STEP 5

Place the bottom mounting brackets onto the bottom rail at each end making sure the flat side is facing the mounting surface. Pay attention to the orientation of the brackets. One is for the top of stairs and one is for the bottom.

## STEP 6

Position the bottom rail between posts. Ensure the distance between the underside of bottom rail and nose of tread does not exceed one Inch.

## STEP 7

Pre-drill each screw hole before securing the bracket in place to the mounting surface using the screws provided. Stainless steel screws while corrosion resistant are "soft er" than other materials and pre-drilling is recommended.

## STEP 8

Insert two balusters into the bottom railing the third rout from post on each end. Do not insert all the pickets at this time.

## STEP 9

Temporarily remove aluminum Insert from top rail and position uncut top rail onto the balusters. Make sure that the balusters are inserted into the same corresponding routs as bottom rail. Using a level, ensure that the balusters are plumb. Scribe top rail as in Step 2 and remove top rail.

## STEP 10

Reinsert aluminum Insert Into top rail and cut on the scribed lines. The top rail can be cut with aluminum Insert Inside.

## STEP 11

Slide top rail brackets onto top rail the same as In Step 4. Pay attention to the orientation of the brackets. One bracket slope downward, this is the bracket for top of the stairs. The bracket for the bottom of stair s slopes upward.

## STEP 12

Insert the remainder of the balusters into the bottom rail. Ensure balusters insert fully into the rail and extend all the way to the bottom.

## STEP 13

Reinstall the cut top rail with aluminum Insert by starting at one end of the railing section; Insert each baluster into the matching hole of the top rail. Ensure the balusters Insert fully into top rail and extend all the way to aluminum insert.

## STEP 14

Position and install top rail to posts. Secure the top rail brackets by pre-drilling each screw hole and using the screws provided.

## STEP 15

Each bracket set contains 2 set screws with screw covers. Pre-drill through the top and one side of each bottom bracket into the bottom rail and through the bottom and one side of each top bracket into the top rail. Secure the screws into place using the supplied screws.

## STEP 16

Check your Installation for accuracy before snapping the decorative screw covers of each bracket into place. Snap decorative covers into place.