



Rake Rail Installation Instructions

****Read all Instructions before beginning installation****

1. Install the Top and Bottom Newel
2. Remove PVC from top rail
3. Set assembled rake rail on steps against top and bottom newel.
4. Mark location of angle cut on top and bottom rail. Baluster at each end to be approximately same distance from the newel.
5. Cut top and bottom rails at proper angle to fit. Do not cut PVC top rail at this time.
6. Place rail assembly between top and bottom newel. Rail can touch tip of each tread or a suitable spacer can be used to raise rail to desired height.
7. Mark a line under bottom rail on upper and lower newel following inside contour of rail.
8. Remove assembly.
9. Place top of bottom rail brackets against lines scribed on newel (#7). Mark location of hole on center of newel. Drill 1/4" hole. (see diagram)
10. Screw 1 1/2" lag through bottom bracket into each newel.
11. Trim 3/8" off of the lower end of the aluminum top rail to allow for thickness of top rail angle bracket.
12. Apply top rail angle bracket by drilling 1/4" hole in top aluminum rail, use 1/4 X 1/2" bolt. (see diagram)

13. Place rake rail assembly over bottom brackets.

14. On lower end of top rail, mark location of lag for top rail angle bracket, swing top rail aside, drill 1/4" hole in the newel, screw 1 1/2" lag into hole. Leave approximately 1/2" of lag exposed.

15. Place top rail angle bracket over this lag. Do not tighten.

16. On upper end of top aluminum rail, drill 1/4" hole at approximately the same angle as diagram, through aluminum top rail and top newel. Screw 2" lag through aluminum top rail into top newel. Tighten bottom lag.

17. Trim top PVC rail cover to fit. Snap top cover onto top aluminum rail.

**** Verify local building code before installation.**