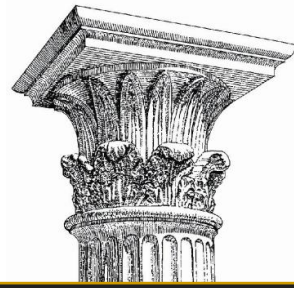




# CHADSWORTH COLUMNS

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## POLYSTONE® ROOFTOP BALUSTERS – INSTALLATION

1.



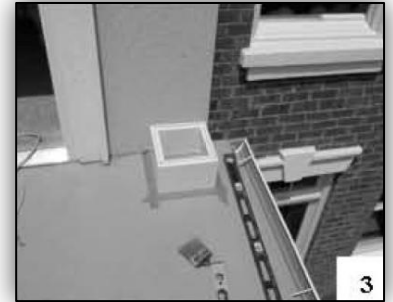
Align newel posts square with decking & position them directly above lower columns (if any).

2.



Mark position of post with a pencil.

3.



Mark position of post with a pencil.

4.



Find center point of the post by marking diagonals.

5.



Drill a 1/2" or 5/8" hole for the placement of the wood insert. The hole size depends upon the size of the wood insert & rod sent with your hardware.

6.



Blow or sweep away dust, shavings, or other debris before proceeding.

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7.



Fill hole with best quality silicone before positioning the insert.

8.



Use a 7/16" Allen wrench to install the threaded insert.

9.



Install the threaded rod; if the decking is solid enough, proceed to Figure 16. If decking material does not appear to be solid enough to hold the wood anchor, proceed from Figure 10 & forward.

10.



As decking is not solid enough to provide adequate support, it is necessary to reinforce the rod. Remove insert and re-drill the hole with a 1" bit.

11.



Cut out a 1-1/2" circle from some gasket material. Cut a 3/8" hole in the center for the rod.

12.



Place a 3/8" hex head nut on the rod, a 2" fender washer, the gasket material and then a 3/8" butterfly nut.

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13.



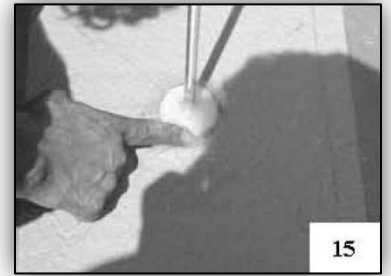
Place a generous amount of silicone around the 1" hole in the decking.

14.



Place a generous amount of silicone between the gasket material and the bottom of the fender washer. Insert rod into the hole.

15.



Holding rod upright, tighten the nut. Be careful not over-tighten the nut.

16.



Apply silicone over washer, gasket and a 1" or 2" area around the rod. Spread with your finger to cover completely. Do not spare the silicone.

17.



Apply adhesive to bottom of base and position within taped area.

18.



Use wooden shims if necessary to level the base.

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19.



Level from side to side. . .

20.



From front to back.

21.



Flush cut the shims to edge of base and apply silicone to fill in the gaps and secure the base. Leave some room for the painter to apply caulk.

22.



Apply adhesive to inside edge of the base.

23.



Position newel post and check to be sure it is level.

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## ALTERNATIVE ROOFTOP INSTALLATION METHODS

The baluster or spindle system can be installed on a rooftop protected by a rubber membrane without compromising the watertight protection provided by the membrane. This can be accomplished by following one of the two methods outlined below for a typical 3/4" plywood roof deck covered by a rubber membrane.

### Method 1:

1. Drill a 1/2" hole through the membrane and into the plywood **being careful not to drill all the way through the plywood**. If you drill through the plywood, see Method 2 below before proceeding.
2. Clean out the drilled hole and fill with silicone.
3. Install the 3/8" threaded insert provided; fill the hole and the insert with silicone.
4. Cut a piece of cork gasket material 2" round with a 3/8" hole cut out in the middle for the threaded rod. Apply silicone to the bottom of the gasket and place it over the threaded insert.
5. Screw the 3/8" threaded rod into the insert and place a 2" fender washer (with more silicone on the bottom side) over the threaded rod and the washer. Screw a 3/8" hex nut down onto the washer and tighten. **BE SURE NOT TO OVER-TIGHTEN**. Finally, apply a generous amount of silicone over the hex nut, washer, and gasket material – overlapping the gasket material by 3/4" and mound the silicone up onto the threaded rod 1" above the hex head nut. This will prevent leaks later.

### Method 2:

If you need to penetrate the plywood base surface (or accidentally penetrated the plywood), you can still have a watertight installation with the use of a butterfly wing nut.

1. Drill a 1" hole through the plywood base.
2. Clean out the drilled hole, and fill with silicone.
3. Screw a butterfly nut on the end of the threaded rod and push it through the 1" drilled hole.
4. Follow the instructions above for Method 1, starting at Step 3 – filling the hole with silicone.

Either method will give you a watertight surface.