

# Pinnacle Rail by UltraDeck®

## Low Maintenance

Only requires periodic cleaning. Spend more time enjoying your deck rather than maintaining it.

## Technologically Advanced

UltraDeck® Composite Pinnacle Railing uses state-of-the-art equipment to blend plastic and wood fiber. The extrusion manufacturing process gives the composite Pinnacle Railing consistent strength and durability for a long lasting beautiful look.

## Durability

Resists splintering, cracking, rotting and insect infestation. The Pinnacle Railing has UV additives which provide fade resistance. Some fading will occur to give your railing a naturally weathered look.

## Easy to Work With

No special tools required; easy as working with wood.

## Environmentally Friendly

Made from recycled and recyclable materials. Due to the presence of recycled materials, some color and texture variations may occur.

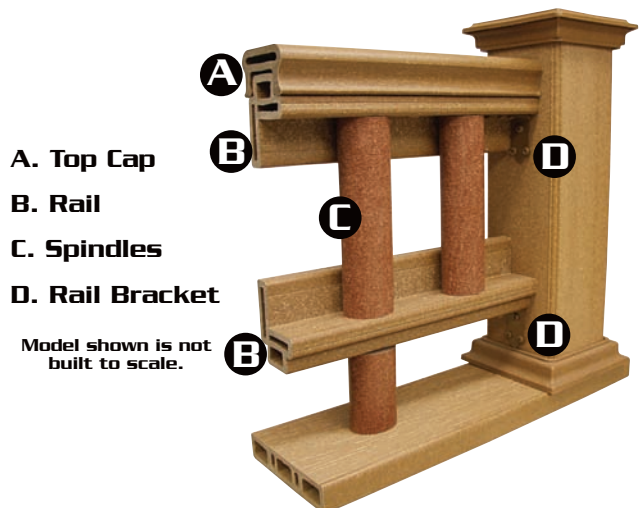
## Features and Benefits

- New rail design for easier stackable installation
- Allows flexibility in design. Spindle choices include composite to many decorative plastic and metal spindle styles up to 1-1/2" diameter
- Accepts any spindle style
- Accepts many decorative cast and acrylic panels
- Available in **Rustic™** Cedar, Gray and Redwood to complement **UltraDeck® Rustic™** decking boards



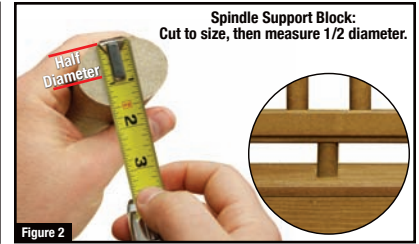
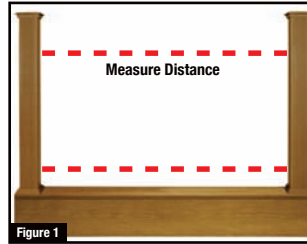
## Tools Needed

- Measuring tape • Pencil and paper • Power drill with bits • Miter saw or chop saw • Level • Safety glasses • Dust mask • Work gloves



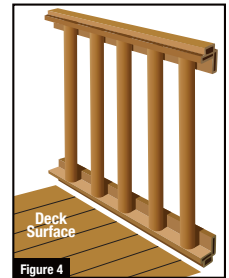
### Step 1) Sizing Spindles, Upper Rail, Lower Rail, and Top Cap

Measure the distance between the post sleeves and cut the upper and lower rail and top cap to this length. Check spindle height and trim to desired height as needed. See figure 1.



### Step 2) Attach Spindle Support Block

Rail spans over 3' require a spindle support block centered under the rail assembly. Check local building codes and cut the support block from the same material used for spindles. As a rule, 3.5" high for a support block will comply with most building codes. Attach the spindle support block to the bottom side of the lower rail by finding center of support block and marking lower rail for pre drilling. See figures 2 and 3. Pre-drill with 1/8" drill bit and install support block using a 3.5" quality deck screw. Do not use composite screws.



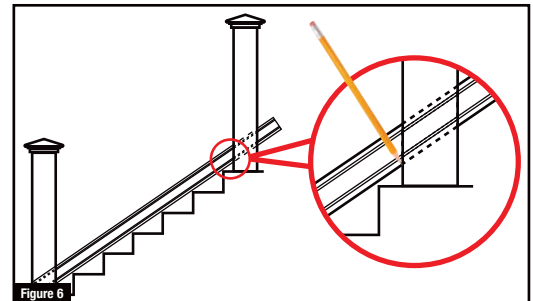
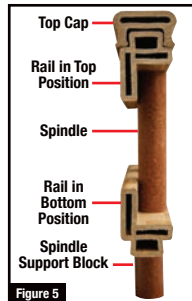
### Step 3) Spindle and Handrail Preparation

Check local building codes for appropriate spindle spacing. As a rule less than a 4" opening between spindles will comply with most building codes. Evenly space and mark the upper and lower rail, leaving the same amount of space on each end of the rail.

- Using a 1/8" drill bit, and the measurement of half the diameter of the spindle, pre-drill holes in the upper and lower rail where each spindle will be attached. Refer to figures 2 and 3.
- The vertical surfaces of the bottom and top rail will face the outside of the deck or steps. See figure 4.

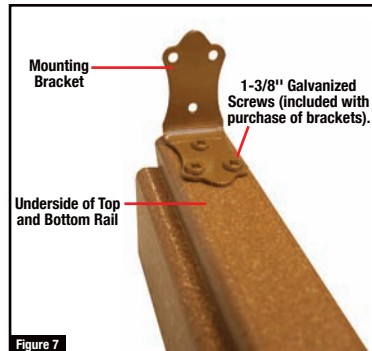
### Spindle and Handrail Preparation for Stair Rails

• Lay the bottom rail on the stairs and mark the angle and length. See figure 6. Do the same with the top rail and top cap. On the lines that you marked, trim all pieces to the same angle. This angle will also be used to cut the spindles. Evenly space and mark the upper and lower rail, leaving the same amount of space on each end of the rail. Using a 1/8" drill bit, and the measurement of half the diameter of the spindle, pre-drill holes in the upper and lower rail where each spindle will be attached. Holes need to be drilled at the same angle stair rail was cut. Refer back to figures 2, 3 and 6.



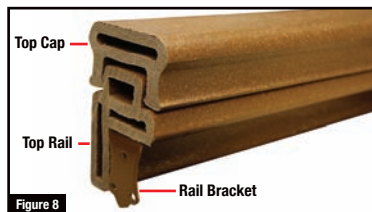
### Step 4) Attach Spindles to Handrail

Working from the center toward the ends, attach the spindles using #10 - 3.5" composite deck screws (sku# 230-5523). Screws must be flush with the surface of the top rail to ensure proper fit of the top cap.



### Step 5) Installation of Mounting Brackets and Rail Assembly

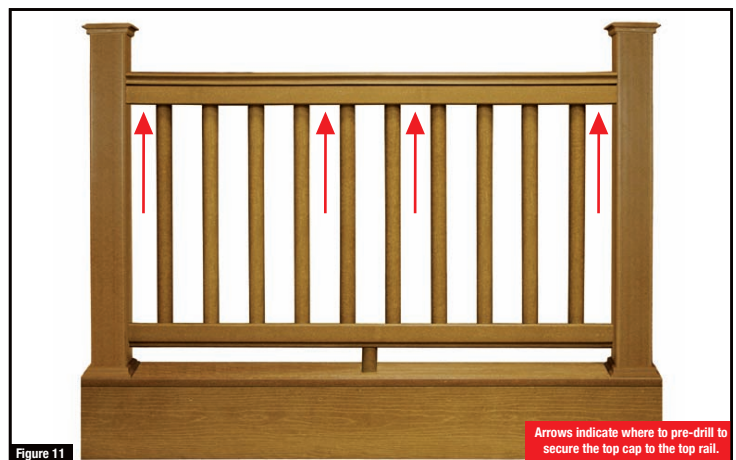
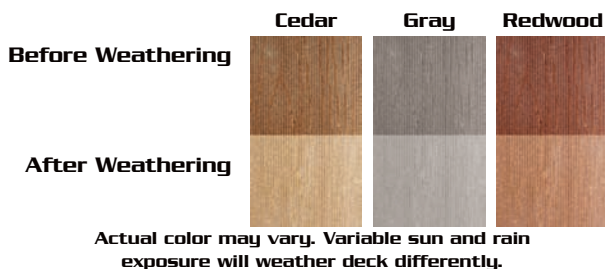
Place the completed rail section between the posts. At each end of rail, temporarily support the rail unit on blocks trimmed to length to ensure proper height of the rail assembly. Making sure the rail is plumb, mark the location of the top rail bracket on the post sleeve. Remove rail section and using screws provided in bracket pack, attach top rail brackets to each post sleeve where marked. Attach bottom rail brackets with screws provided in bracket pack to the bottom rail of the assembly. Hang rail assembly on top brackets. Verify rail assembly is plumb and support block is resting on deck. Attach the top brackets to the under side of rail assembly and the bottom brackets to the post sleeve on each end. See figures 7, 8, 9 and 10. Note: Pre-drill all holes before attaching brackets.



- If using stair rail brackets, attach parts A & B to the rail and post sleeve per package insert directions. Once assembly is set in place, tap in lock pin to secure assembly.

### Step 6) Install Top Cap

Using 1/8" drill bit, pre-drill four holes through the upper rail centered between spindles one at each end and two spaced between. Secure the upper rail to the top cap using 2" premium deck screws (sku# 230-5506). See figure 11.



Arrows indicate where to pre-drill to secure the top cap to the top rail.