

QuickRail® Straight Rail Kit

Installation Instructions

Before You Begin: Important Information

Figure 1

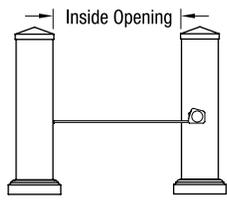


Figure 2

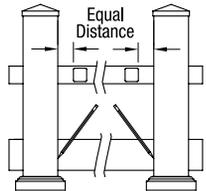


Figure 3

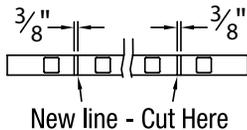


Figure 4

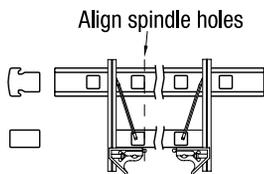
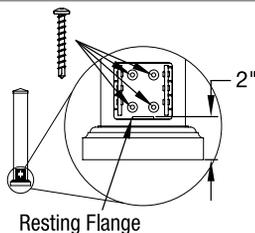


Figure 5



- Rail Kits with structural inserts include shorter spindles to accommodate the structural insert in the top rail.
If you are working with multiple rail kits, do not mix the spindles between kits.
- The 10' & 12' Rail Kits should **NOT** be attached directly to the 4" Complete Post Kit or Post Sleeve. The 10' & 12' Rail Kits should only be attached directly to the supporting construction. (i.e. support column or wall)
- To meet residential building codes, Square Spindles are spaced a nominal 4" apart and Colonial Spindles are spaced a nominal 3 1/8" apart. Because of the smaller spacing required for the Colonial Spindles, the rails in the Colonial Kits are slightly shorter than the nominal kit length. Please refer to the chart below for actual lengths. **Note:** Glass rail kit only available in 6' length and has an actual length of 72".
- No finishing is required. Painting QuickRail products is **NOT** recommended and will void the warranty.
- A full line of additional QuickRail accessories are available to complement the Straight Rail Kit and are sold separately.
- For glass spindles, always exercise care when handling and installing product. Always use personal protective devices. Care should be taken to avoid any type of impact to the edge of the glass spindles both during installation and also after spindles are installed.

Installation

Measure the inside opening between the mounting surfaces to verify that the opening is not wider than the length of the rails provided (**Figure 1**).

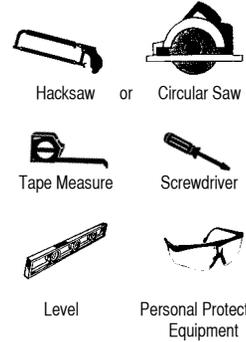
Lay the bottom rail beside the mounting surface with the spindle holes facing up. Align the rail between the mounting surfaces, placing the first spindle hole on each end of the rail the same distance from the mounting surface (**Figure 2**). **Note:** Should the spindle holes fall inside or directly beside a mounting surface, slide the rail in either direction to align spindle holes evenly between mounting surfaces.

When properly positioned, mark both ends of the bottom rail. Make another mark 3/8" in toward the center of the rail from each mark made previously. Using this second set of marks, cut the rail to length (**Figure 3**). **Note:** Square spindles come sized for a 36" or a 42" rail height based on the traditional 2" clearance from the bottom rail to the mounting surface. Colonial and glass spindles only come sized for 36" rail height. If your application is different, you have the option of trimming the PVC spindles to your desired height however, glass spindles cannot be trimmed. Be sure to check with your local code officials for height requirements.

To mark the top rail, lay it beside the bottom rail, align the spindle holes, and mark both ends of the rail. Cut the top rail to the same length as the bottom rail (**Figure 4**).

Locate the two bottom rail mounting brackets. **Note:** There is a difference between the mounting brackets. The top brackets are shorter and wider than the bottom brackets. Using eight of the 1 1/2" screws supplied, install the two bottom rail mounting brackets onto each mounting surface with the resting flange 2" from the mounting surface if using traditional 2" clearance (**Figure 5**). If the mounting brackets are being mounted on posts, they should be centered on the posts. **Note:** If using a cordless drill to attach the brackets to the mounting surface, be careful not to strip the screws.

Tools Required



Actual Rail Lengths

Nominal	Square Kit	Colonial Kit
6'	72"	70 1/2"
8'	96"	94 1/8"
10'	120"	117 3/4"
12'	144"	141"

Note: Always consult the local building code authority to determine suitability of products to meet specific project requirements.

Warranty Information

For complete warranty details and exclusions, visit the Product Support section at www.fypon.com.

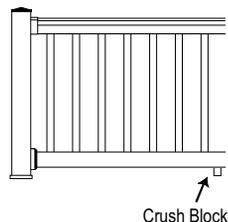


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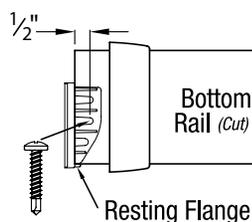
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Figure 6



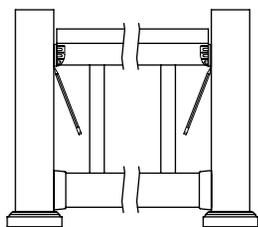
Locate the crush block and cut to the proper length (**Figure 6**). The formula for determining the correct crush block length is: Desired clearance from bottom rail to mounting surface + $3 \frac{1}{4}$ " = length of crush block. **Note:** Spindle lengths are sized for a traditional 2" clearance from bottom rail to mounting surface. Once the block is trimmed, insert it into the pre-cut hole on the underside of the bottom rail.

Figure 7



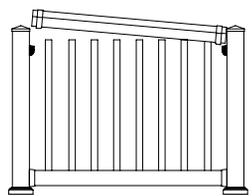
Slide a bottom rail bracket cover onto each end of the bottom rail and attach the bottom rail to the bottom rail mounting brackets, making sure the rail sits on the resting flanges. Install two of the supplied 1" long screws into each mounting bracket (1 on each side) in the middle slot of the bracket. The screws should be located as close to the radius end of the slot as possible, which is approximately $\frac{1}{2}$ " from the end of the rail (**Figure 7**). **Note:** If using a cordless drill, be careful not to strip the screws. Slide the covers toward the post until they snap on to the mounting brackets. An audible "click" should be heard, signifying that the covers are now secure.

Figure 8



To determine the location of the top rail mounting brackets, insert two spindles in the bottom rail, one in each of the pre-cut holes that are closest to each end of the rail. Slide a top rail mounting bracket on each end of the top rail so that the rail sets on the resting flange. Place the rail on the spindles, inserting the two spindles into the respective pre-cut holes in the top rail. Push down on the top rail to make sure it is resting securely on top of the spindles. Before marking the locations of the mounting brackets, make sure the spindles are plumb and the top rail is level. Using a pencil, mark the location of the mounting brackets so they can be attached to the mounting surface (**Figure 8**). Remove the top rail and top rail mounting brackets and secure the brackets to the mounting surface using eight of the $1 \frac{1}{2}$ " screws supplied and the marks made previously.

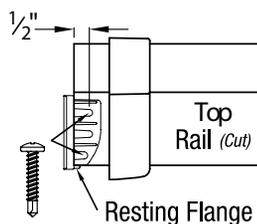
Figure 9



Insert all of the spindles into the pre-cut holes in the bottom rail.

Slide a top rail bracket cover on each end of the top rail. Place the top rail on the spindles, inserting the spindles one at a time while holding the top rail at an upward angle (**Figure 9**). Once all of the spindles are inserted into the top rail, it should be resting on the top rail mounting bracket resting flanges.

Figure 10



Install four of the supplied 1" long screws into each mounting bracket (2 on each side) in the top and bottom slots of the brackets. The screws should be located as close to the radius end of the slot as possible, which is approximately $\frac{1}{2}$ " from the end of the rail (**Figure 10**). Slide the covers towards the mounting plates until they snap onto the mounting plates. An audible "click" should be heard, signifying that the covers are now secure.

QuickRail Accessories

Bracket Kits

- 45° Bracket Kit
- Curved Bracket Kit
- Multi-Angle Bracket Kit
- Stair Rail Bracket Kit
- Straight Rail Bracket Kit

Posts

- Colonial Porch Posts
- Column Wraps
- Complete Post Kits
- Post Sleeves
- UltraPost Kits

Post Accessories

- Ball Post Top
- New England Post Top
- New England Post Base
- Gothic Post Top

Rail Kits

- Gate Kits
- Stair Rail Kits
- Straight Rail Kits

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