



Installation Instructions

QuickRail® Multi-Angle Brackets

General & Safety Information

- Wear proper personal protective equipment (PPE).
- Operate all tools per manufacturer guidelines.
- Standard woodworking saws and blades can be used for cutting Fypon® PVC products, except in cases where metal is being cut.
- These instructions only refer to installing multi-angle brackets for a rail kit and they assume that correctly specified posts are already properly installed, per code requirements.
- Consult your local building department for applicable codes and building requirements.
- All Fypon products must be installed per the following instructions to maintain warranty coverage.
- Do NOT paint or stain QuickRail products, it will void the warranty.

Tools / Materials

- Pencil
- Tape measure
- Level
- Screwdriver or drill with #2 Philips bit

Kit includes:

- (2) Top Rail Pivot Brackets
- (2) Bottom Rail Pivot Brackets
- (2) Top Rail Bracket Connectors
- (2) Bottom Rail Bracket Connectors
- (2) Bracket Pins
- (2) Bracket Pin Caps
- (1) Screw Pack

Installation Instructions

These instructions are supplemental to the QuickRail Straight Rail Installation Instructions, and refer only to the additional steps needed when using multi-angle brackets. DO NOT use multi-angle brackets in applications more than 30" above ground.

1) Install bottom pivot brackets.

Identify bottom pivot brackets, which are smaller than the top pivot brackets (Figure 1A). Install bottom pivot brackets 1- $\frac{3}{4}$ " from the floor and centered side-to-side if attached to a post, using the provided screws (Figure 1B). Note that the clearance between the floor and bottom rail should match any surrounding rails for consistency.

Note that multi-angle brackets cannot be used with 45-degree adapters.

Figure 1A

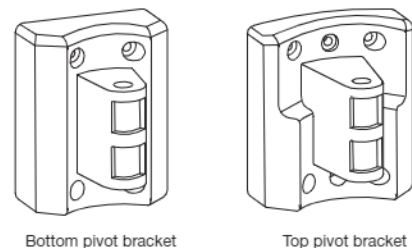
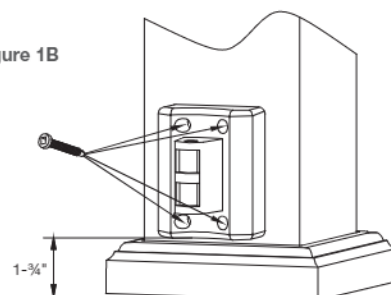


Figure 1B



2) Measure and cut rails.

Temporarily attach the bottom bracket connectors to the bottom pivot brackets and insert pins (Figure 2A). Turn them until they are aligned and measure the distance between them (Figure 2B). Mark that length on the bottom rail so the spindle holes are equally spaced inside the marks (Figure 2C). The marks should NOT be on a spindle hole (Figure 2D). Any crush block holes on the bottom of the rail should also be centered between the marks as much as possible.

Make additional marks that are 1-3/4" offset to the outside of the previous marks, these will be the cut marks (Figure 2E).

Cut the bottom rail to length.

Position the top rail next to the bottom rail, with spindle holes aligned. Mark top rail and cut to same length as bottom rail (Figure 2F). Note that top rails longer than 6' have a metal insert.

Figure 2A

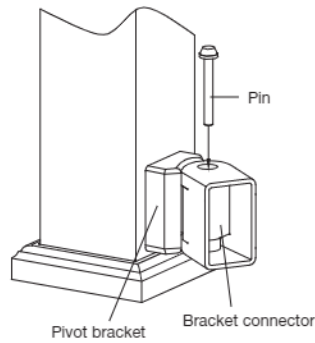


Figure 2B

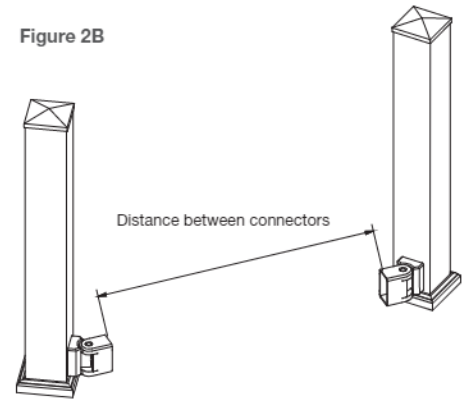


Figure 2C

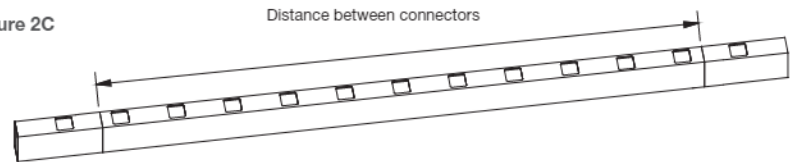


Figure 2D

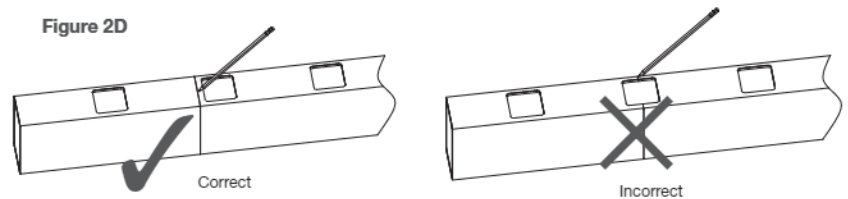


Figure 2E

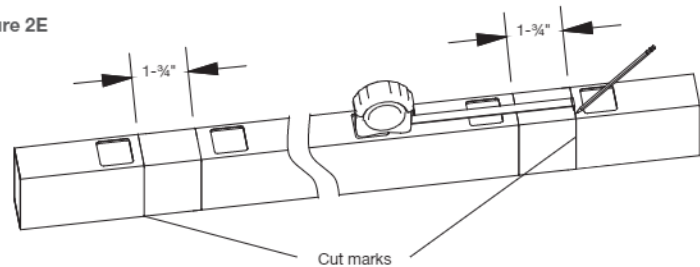
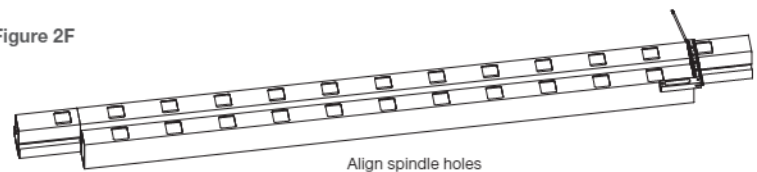


Figure 2F



3) Install bottom rail.

Remove the pins to disassemble the brackets and connectors and slide the bottom bracket connectors over the ends of the bottom rail (Figure 3A). Temporarily install the bottom rail on the pivot brackets with the spindle holes facing down and insert the pins. Insert a screw into each bracket connector to secure it to the bottom rail (Figure 3B). Then remove the pins and reinstall the bottom rail with the spindle holes facing up, before reinserting the pins (Figure 3C).

Figure 3A

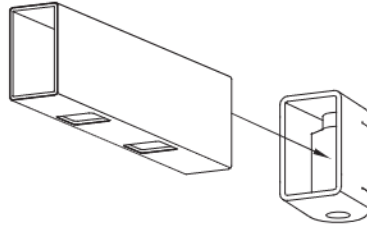


Figure 3B

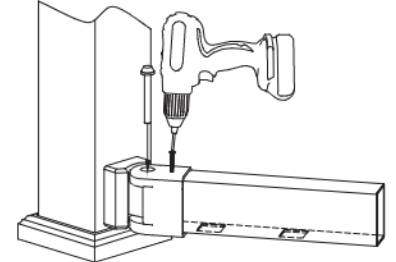
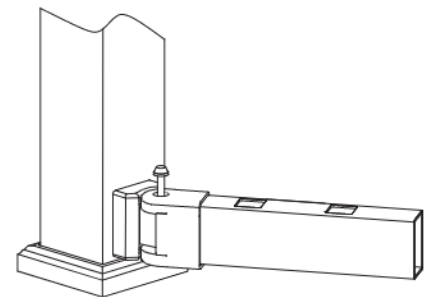
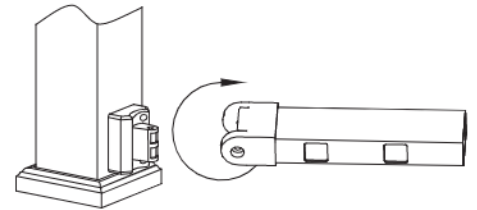
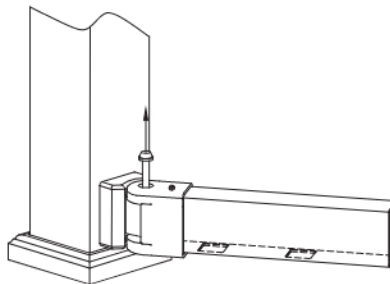


Figure 3C



4) Install top pivot brackets.

Temporarily insert a spindle at each end of the bottom rail.

Slide the top rail bracket connectors on the ends of the top rail, and assemble the top pivot brackets to the connectors, inserting the pins.

Fit the top rail over the spindles so they fully insert into the spindle holes in the top rail. After making sure the top rail is level and the spindles are plumb, mark the top bracket locations on the mounting surfaces (Figure 4A).

Remove the top rail, disassemble the pivot brackets from the connectors and install the top pivot brackets at the marked locations using the provided screws (Figure 4B), as done for the bottom pivot brackets in Step 1.

Figure 4A

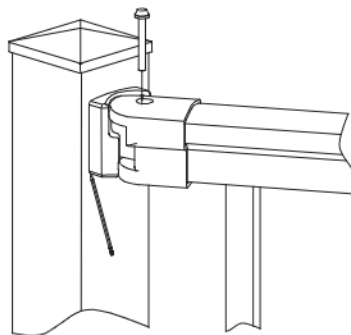
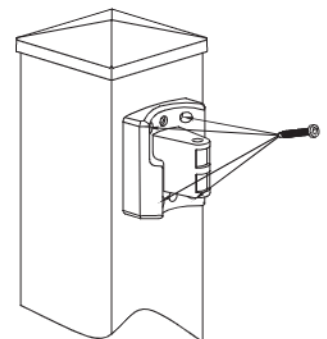


Figure 4B





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5) Install spindles and top rail.

Insert all of the spindles into the pre-cut holes in the bottom rail (Figure 5A).

With the top rail connectors still on the ends of the top rail, fit it over the spindles so the connectors align with the pivot brackets and the pins can be inserted at both ends, as in Step 3.

Insert a screw into each bracket connector from the bottom to secure it to the top rail (Figure 5B).

6) Attach pin caps.

Attach a pin cap to the bottom of each pin by pushing it on until it seats firmly on the pin (Figure 6).

Figure 5A

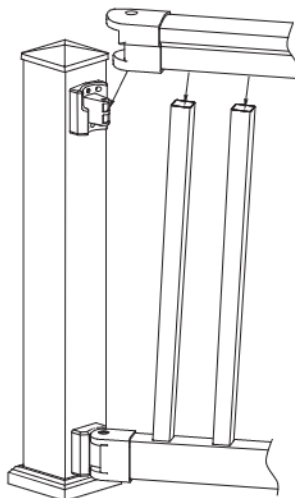


Figure 5B

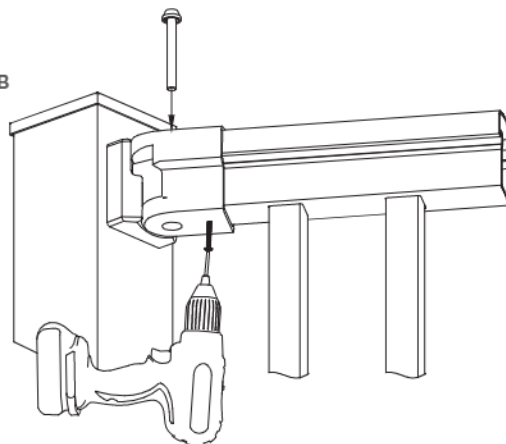


Figure 6

