

## 2" Standoff Extension Bracket (FCF-2EX) Installation Instructions

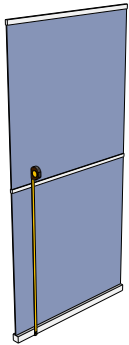
**Required tools:** Phillips Head Driver / Drill      Level      **Included Parts:** 2 Pieces FCF-2EX  
 Metal Cutting Saw      Pencil  
 Tape Measure      Metal File

### Fasteners:

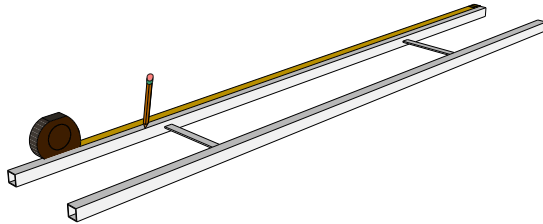
There are pre-drilled mounting holes in each mounting plate. Appropriate fasteners for your surface must be utilized in every mounting hole for proper installation. Fasteners for securing racks to the frames are provided, but hardware for attaching the frames to the floor and ceiling are not. We recommend the following fasteners for these surfaces:

- Drywall installations should attach to joists or wood backing when available with a #8 X 1-1/2" course thread screw or larger alternatively, use expanding hollow wall anchors with at least #8 screw size
- Wood surfaces use #8 X 1-1/4 course thread screws or larger
- Concrete, Brick or Stucco: 3/16" x 1 1/4" masonry screw or #8 x 1 1/4" screw with appropriate size expanding concrete anchor

**1. Measure height of the connection points** - Measure the distance from the floor to the centerline where the wall brackets will attach. Subtract 3/16" (4.8mm) from the measured height (to allow for the thickness of the bottom mounting plate and half of the extension bracket) and mark the calculated distance on both legs of the frame.

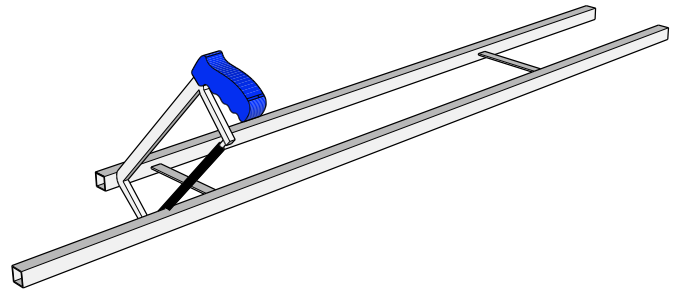


**Note:** If the calculated measurement aligns with one of the cross members, cut 2 inches (52mm) off the end of the frame and then mark the cut lines, measuring away from the cut end of the frame.

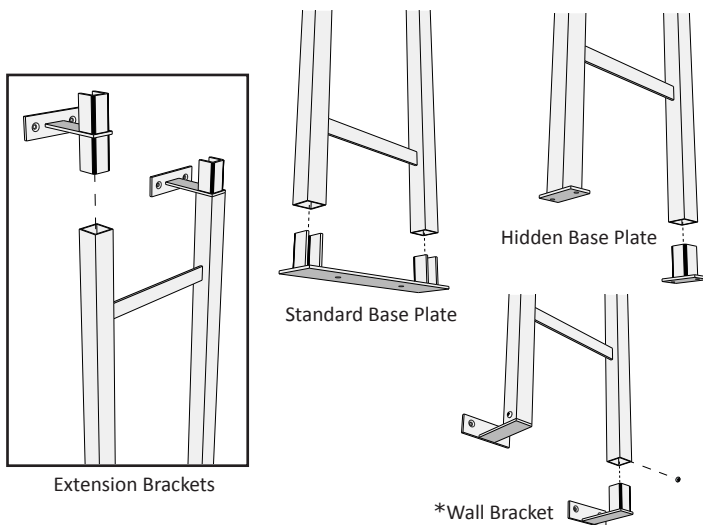


**2. Cut the lower frame section** - Using a reciprocating saw, band saw or hack saw with the appropriate blade; squarely cut both legs of the frame at the marks from Step 1. With a metal file, carefully remove any resulting burrs from the cuts.

**Note:** An abrasive cut-off saw should not be used, as the heat generated is likely to damage the finish of the FCF-HD.



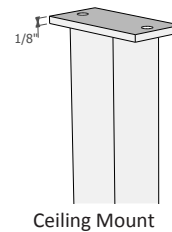
**3. Assemble the lower frame** - Insert the C-channel of the extension brackets into the end of one frame section and ensure that they fully seated, with the horizontal plate flush against the end of the frame. Install the bottom mounting plate option into the opposite end of the frame by sliding the C-channel into the frame as shown below and securing with a self-drilling screw through the side of the frame.



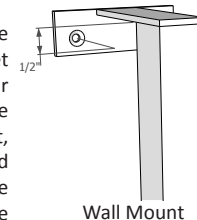
Wall Brackets should only be used against the floor or to support frame sections under 5 feet tall.

**4. Measure height of upper section** - Hold the assembled lower section of the frame in place and refer to the instructions below for the attachment method corresponding with your installation:

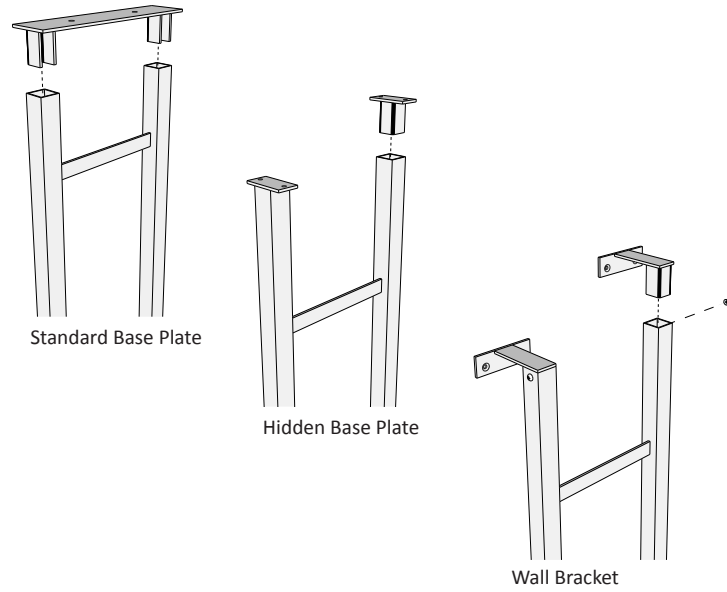
**Ceiling Mount:** Rest your tape measure on the horizontal bracket, between the frame and the wall, and measure the height of the ceiling. Subtract 1/8 inch (3.2mm) from the measured distance to accommodate the thickness of the mounting plates. This applies to the standard (FCF-BASE) and hidden (FCF-HIDDEN) base plates. Mark the resulting dimension on the frames and cut, following the procedure in step 2.



**Wall Mount:** For the wall mount bracket (FCF-2WB), rest your tape measure on the horizontal bracket, between the frame and the wall, and measure the height to the centerline where the fasteners will attach. Using that measurement, add 1/2 inch (12.7mm) to the measured distance. Mark the resulting dimension on the frames and cut, following the procedure in step 2.



5. **Assemble upper frame** - Slide the cut upper frame section over the exposed C-channels of the extension brackets, ensuring that the frame is seated flush against the horizontal plate and install the top mounting plates, securing them with a self-drilling screw through the side of the frame.



6. **Install the frame** - Position the assembled frame, ensuring it is plumb both front to back and side to side, using a level and fasten at the top through all available mounting holes. Fasten the extension brackets to the wall and then secure the bottom of the frame through the mounting holes in the mounting plates.

Refer to the detail images below for the mounting plate option that applies to your installation.

