

**Installation Instructions:**

1. The FB-02 should be used with a rail that has a flat bottom where the rail meets the bracket. This is common with wood rails but if there is no flat surface, one can be created using a router. A small flat surface of 2" wide and 3/4" deep will suffice.
2. Ensure there is approx. 1-1/2" to 2" of solid backing, wood stud or concrete to anchor into. The FB-02 can be installed on top of drywall with the adequate backing.
3. Drill a 1/2" hole through the drywall or wall surface into the backing – depth should be as deep or longer than the FB-02 anchor
4. Tightly fasten the anchor into the back of the FB-02 bracket
5. With the custom anchor fastened into the bracket, epoxy the anchor into place and let cure before removing the bracket (if removal is necessary)
6. If necessary, once cured, remove the bracket and fill in or repair any wall imperfections – replace bracket once complete
7. If using a wood rail, drill a 1/2" dia hole, approx. 5/8" to 3/4" deep at the points where the brackets will attach to the rail.
8. Thread the threaded wood insert into the hole created in the underside of the rail. Glue can be added prior to inserting the insert for added strength. The insert should sit flush or be just below the surface once in place
9. If using a metal rail, discard the threaded wood insert, tap the underside of the rail to accept a 5/16" unc thread. Tap depth should be approx. 5/8"
10. Place rail in position on top of brackets
11. Fasten rail into place using the 5/16" SHCS bolt provided.

Each FB-02 assembly includes:

- 1 Bracket
- 1 Wall anchor & 5/16" set screw
- 1 5/16" unc 2" SHCS S.S. bolt
- 1 5/16" threaded wood insert

NOTES:

1. Firmly fasten anchor into the back of the bracket before installing into the wall. Epoxy anchor into wall with bracket firmly attached.
2. There should be an approx 1-1/2" solid backing, wood stud or concrete to anchor into.
3. There should be an approx 3/4" flat surface on the underside of the rail where it is to attach to the bracket.
4. If attaching a metal rail, see step #9
5. The FB-02 can be used on concrete, no extra steps are required. Ensure all debris is cleared out of the hole prior to epoxying the anchor into place. Use epoxy that works with concrete and metal.
6. Any off the shelf premium epoxy (avoid 2 part epoxies) that bonds with metal and wood (or concrete) will work.

