

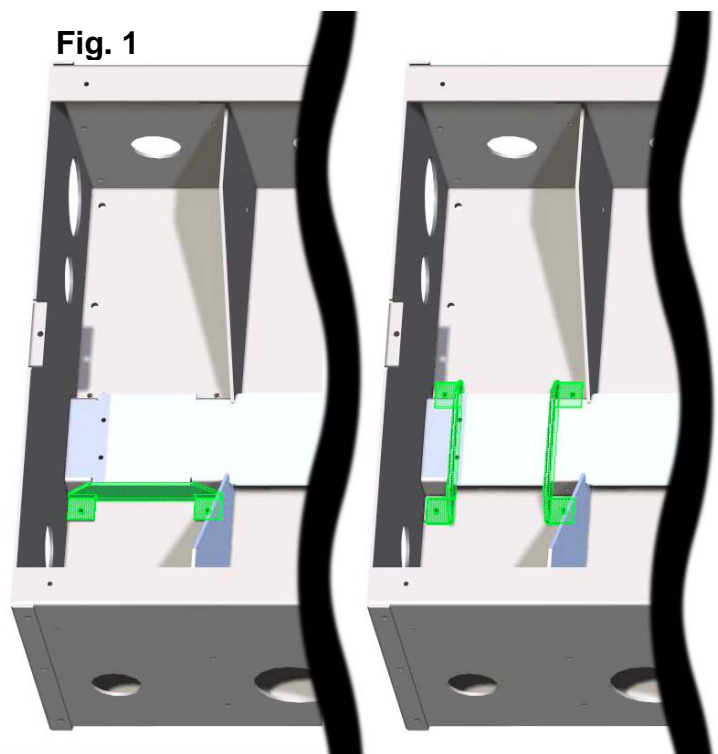
**RE: FB5000 series floor box installation instructions**

This FB5000 series provides easy access to cables, low voltage connectors, power, and/or other devices. It can be used with carpet, tile, or wood flooring installed over concrete anywhere that electrical codes regarding scrub water apply. If installed on grade, a minimum of 3" of concrete placed under the backbox is required. Above grade installations may need an offset in the floor form to provide sufficient concrete below the floor box to maintain a specified fire rating. The use of intumescent barrier fire proofing materials, coatings, or systems are strongly recommended to provide alternative options where floor boxes must penetrate a floor. Consult project designer.

**Pre pour instructions:**

- 1 Remove the **temporary cover** with attached PVC spacer, and set aside for later re-installation.
- 2 Adjust height of backbox (**temporary cover** removed) to  $\frac{1}{4}$ " below proposed finished floor height. With **temporary cover** installed, the concrete will be screeded flush to the top of the cover and ensures proper depth of the backbox in the pour. Fasten the backbox securely to metallic grade stakes or framing members to prevent movement during concrete pour. Placement should not rely solely on metal clips, leveling screws, duct tape, or other insufficient mounting methods.

- 3 Install conduits to backbox as required. The low voltage section(s) of the box are separated from the high voltage single gang section(s) by a **metallic barrier**. The box can be configured to have two separate or two joined single gang high voltage sections by use of the internal **compartment closing bracket(s)** supplied (Fig. 1). Wiring can also be fed through to the opposite side of the box to allow multiple backboxes to be "looped through" using straight conduit between adjoining downstream boxes. Multiple ground screw locations are provided for terminating grounding conductors during rough-in with the supplied 10-32 ground screws.
- 4 Re-install **temporary cover**, spacer side down, and hand-tighten 8 each 8-32 x  $\frac{1}{2}$ " stainless steel screws (supplied).



**Final trim-out instructions:**

- 5 Remove and discard the **temporary cover** after concrete has cured. Apply ¼” beads of RTV or 100% silicone caulk to seal the entire top lip of the metal backbox directly over the mounting screw openings and the recessed concrete lip surrounding it (Fig. 2).

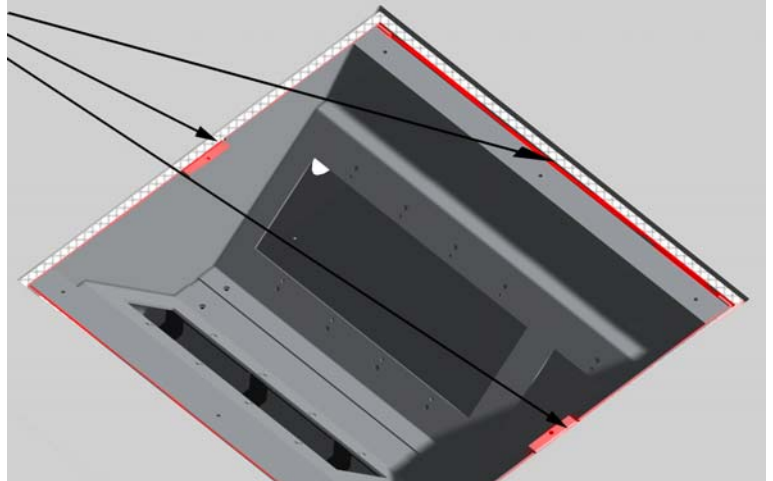
Note: Fill any gaps between backbox and surrounding concrete to seal **trim-out cover** to backbox.

- 6 Install the **trim-out cover** using the supplied stainless steel 8-32 x ½” screw with O-ring attached (Fig. 3).
- 7 Unscrew 4 each captive screws to remove **lift-out door**. The small door can be folded back on the Velcro retainer for cable egress.
- 8 Install flooring material. Flooring material should be cut so that it runs under the lip of the brass trim both of **lift-out door** and **trim-out cover** (Fig. 4). Carpet should be installed using a superior bond carpet adhesive.

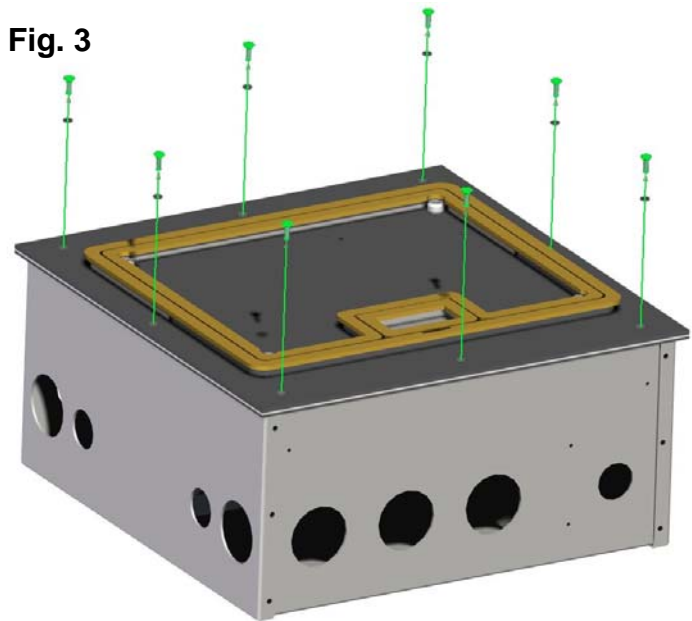
Note: Where wood or stone is used, a stronger bond is required. Recommended adhesives are “E6000 Adhesive Industrial Strength”, “Seal All adhesive”, or “Goop adhesive” manufactured by Eclectic Products, Inc. ([www.e-6000.com](http://www.e-6000.com)) available at hardware, building supply, auto parts stores, and Walmart.

- 9 To prevent trip hazard, the captive screws must be tightened firmly in a uniform and incremental manner until **lift-out door** trim is flush or slightly below the outer cover trim. Do not over-tighten. To prevent scrub water ingress, the **lift-out door** (with small door closed) must be secured with captive screws as per above.

**Fig. 2**



**Fig. 3**



**Fig. 4**

