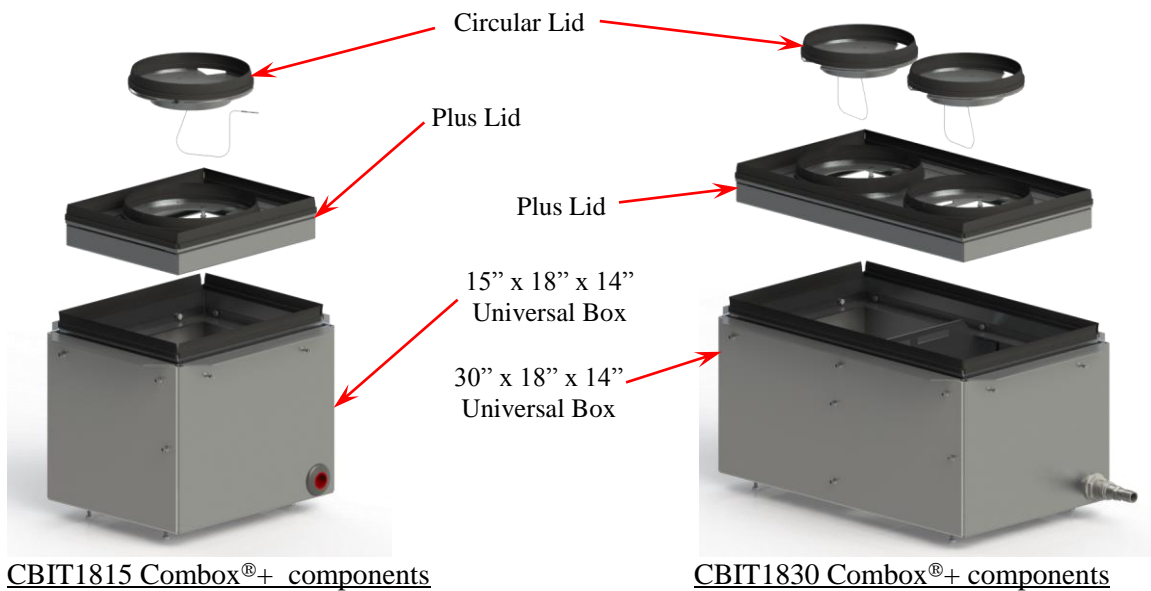


## Combox®+ Installation Instructions for Synthetic Infill Turf Field Applications

For Model # CBIT1830 Combox®+ and  
Model # CBIT1815 Combox®+

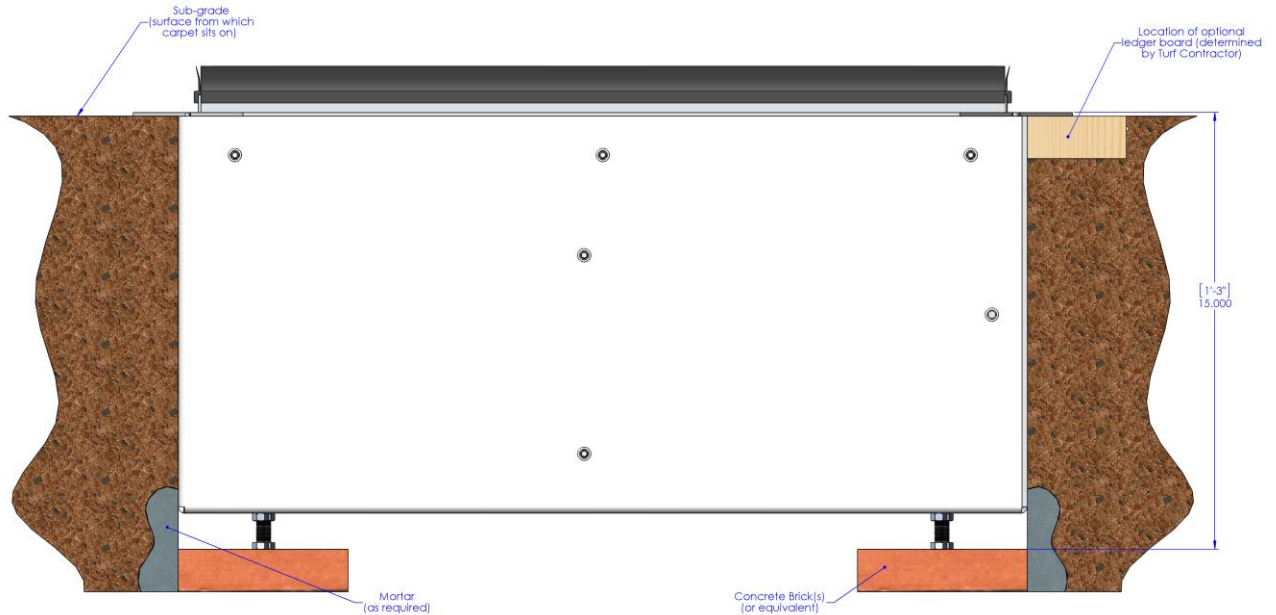
### Components



### Placement

1. Remove circular lid and plus lid from box assembly and set aside in a secure location.
2. Establish the location of the Combox®+ per plans and/or specifications. Excavate a pit approximately 15'' deep for the box. Excavate drainage connections adjacent to the pit if drainage connections to the box are required.

- Set the elevation of (4) concrete bricks 15” from the top side of the (4) bricks to the bottom side of the synthetic turf carpet taking into consideration the side to side location of the adjuster bolts located on the bottom side of the box (See **Diagram 1**).



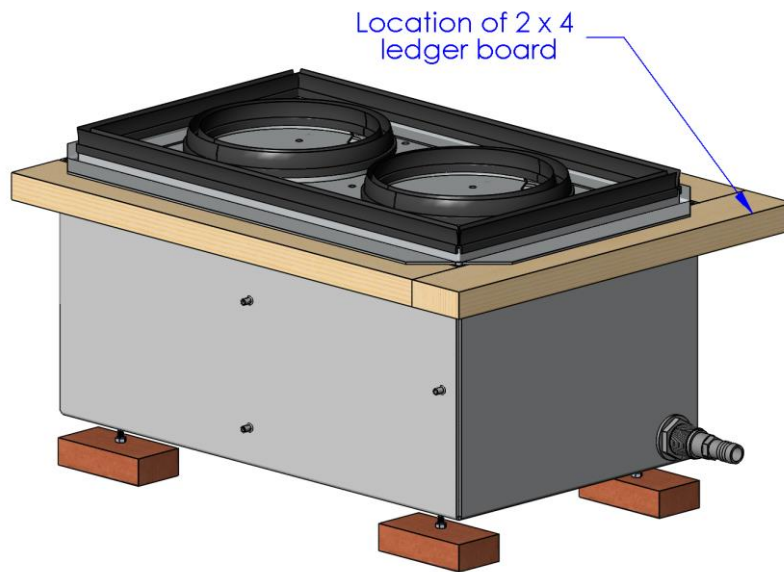
**Diagram 1**  
Combox<sup>®</sup>+ elevation detail.

- Secure the brick's finalized location(s) with patties of stiff mortar (or equivalent).
- Prior to setting the box into its location, determine if drainage is required. If drainage is required, the following step must be completed prior to setting the box. Locate the PVC bulkhead fitting threaded into the side of the box. During shipping, the nipple on the bulkhead fitting is oriented in "Shipping Mode" to prevent damage (See **Diagram 2**). Unthread the bulkhead fitting, reverse orientation, and secure the fitting back into position with the nipple oriented to the outside of the box. Remove the red vinyl plug and discard. Disregard this entire step if drainage is **NOT** required.



**Diagram 2**  
Bulkhead fitting detail.

6. Orient box with the mating drainage connection and place the box onto the concrete bricks. Adjust elevation and levelness using adjuster bolts located on the bottom side of the box. The correct elevation is determined by the top side of the horizontal lip to be flush with the bottom side of the synthetic turf carpet. Secure bolts to hold final adjustments. Connect drainage.
7. Place mortar around the outside and inside corners of the box for stability. Be sure to cover the adjuster bolt hardware with mortar to insure the permanent position of the box. The entire box does not need to be encased in concrete however it is recommended that a small amount of concrete be placed around the lower perimeter portion of the box to help maintain strength, placement and rigidity. Please consult your plans/specifications for final details.
8. Prior to backfill, you may add additional surface area for anchor points for the synthetic turf carpet by adding optional 2 x 4 ledger boards screwed into position under the external aluminum lips. Please consult the turf contractor/plans/specifications if this additional step is required (**Diagram 3**).

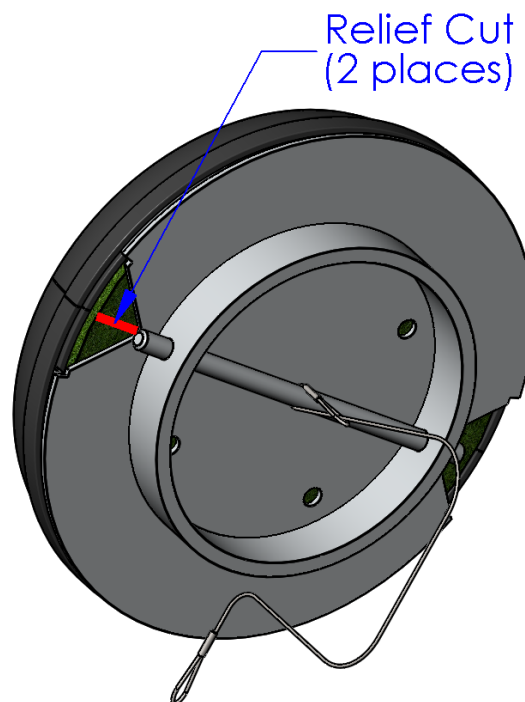


***Diagram 3***  
Optional ledger board detail.

9. Backfill and tamp.

## Turf Installation

1. **Important Note:** Do not remove black gasket! It has been permanently epoxied into position during manufacturing. Removal of the black gasket may result in permanent damage to the black gasket material rendering it un-repairable.
2. Butt the field side trimmed edge of the synthetic turf carpet to the black gasket. Fasten carpet edge per turf manufacturer's specifications.
3. Cut matching artificial turf to the exact geometric pattern of the Plus lid and adhere carpet per specifications.
4. Cut circular patterns to match exact pattern of the Circular Lid(s) and fasten carpet to the same specifications as above.
5. Relief cut the synthetic turf carpet (Circular Lids) as show in (**Diagram 4**). Note: Do not remove gasket!



**Diagram 4**  
Relief cut detail on a Circular lid.

6. Install lid(s) into box. Combox®+ installation complete.

## **Important Contractors Note**

1. The CBIT1830 and CBIT1815 Combox®+ are not watertight therefore drainage provisions have been provided. It is also necessary for UL approved electrical and communication junction boxes to be used for watertight connections.

## **Conduit and Wiring**

1. Wire conduits are brought up through the open bottom of the Combox®+. Receptacle boxes can be attached directly to the inside surfaces of the aluminum enclosure using self-drilling/tapping screws. Construction materials to finish off the interior of the Combox®+ may include pea gravel or a concrete floor. In either case, slope the grade towards the positive drainage area. Ensure that there are no obstructions in and around the drain area.

## **User Instructions**

### **1. To lock/unlock Circular Lids**

- a. Twist lid approximately 15 degrees to disengage the locking mechanism. Gently lift the lid by grasping the circular lid's rubber gasket at the 9 o'clock and 3 o'clock positions. If the locking mechanism does not release, repeat procedure until mechanism releases the circular lid. **NOTE: Once lid is released, keep the circular lid as level as possible as the infill will spill over if the circular lid is allowed to tip over.**
- b. To lock circular lid, procedure is reversed.

### **2. To lock/unlock the Plus main lid.**

- a. The Plus main lid can be locked (CBIT1830 Combox®+ only) with an end user supplied pad lock. An approved specified pad lock is as follows: An outdoor grade, 5/16" diameter shackle, minimum 13/16" inside width and with a minimum shackle length of 2 1/2" long. Any other width/length shackle is not approved and/or may not operate correctly in conjunction with the specially manufactured cutouts that are specifically designed for the above pad lock specifications.
- b. Begin the Plus main lid removal process by unlocking and removing the circular lids. This procedure is specified in Step 1.
- c. Visually confirm the location of the pad lock by looking through the circular openings and unlock the pad lock. Carefully swing pad lock body 180 degrees to the shackle. Push pad lock away from you until the body intersects with the aluminum divider panel. Next, rotate pad lock until parallel with divider panel. Push pad lock away from you until the open end of the shackle clears the cutout opening. Remove

pad lock. Note: this procedure may require repeated attempts until the lock clears the cutouts.

- d. Set pad lock in a secure area. Grasp the Plus main lid along the inside edge of the circular edge openings. Gently pull up until the main lid clears any obstructions and set aside. **NOTE: Once lid is released, keep the circular and main lids as level as possible as the infill will spill over if the circular lid is allowed to tip. Note: The weight of the lid assembly is 40 lbs. If you have a physical lifting limit, seek an assistant.**
  - e. Reverse procedure to set and lock the Plus main lid.
3. **To wire through**
- a. Remove the Circular lid as specified in step a. of “**To lock/unlock 3400 Circular lids**”
  - b. Connect any/all services inside the Combox<sup>®</sup>+ allowing extra service wire coiled inside the enclosure. Note: Certain conditions may require the Plus main lid to be removed prior to connecting services. See “**To lock/unlock the Plus main lid**” if required.
  - c. Thread service line through the gasket and into the relief cut artificial carpet area while maintaining the circular lid level and flat.
  - d. Gently place the Circular Lid(s) back into position while persuading the service line into the correct cutout area. Once the lid is in position, **DO NOT TWIST LID INTO THE LOCKING POSITION!** Twisting the lid into the locking position with service line(s) through may sever the line.
  - e. Reverse procedure to remove service line(s).

## **REPLACEMENT PARTS**

Contact Sportsfield Specialties Customer Service at 1-888-975-3343 for replacement hardware.



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