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## Installation Instructions for 24" x 48" x 4" (R28) & 24 x 48" x 6" (R42) Ceiling Access Doors (CAD)

**NOTE:** Read all instructions completely before beginning installation

***CAUTION:*** If this product is being installed next to a copper-based wood preservative, a barrier must be installed between the treated lumber and this product to prevent a reaction between the metal and the preservative.

### Tools and Material Required:

- Portable drill/driver
- Tape measure
- 1/8" dia. drill bit
- T25 torx bit
- Pencil
- Caulk or silicone sealant

### Kit Includes:

- 1 - door frame 24" x 48"
- 1 - 24" x 48" bi-fold door panel – either 4" or 6" thick
- 2 - PN 8080: female-plate hinge
- 2 - PN 8081: male-panel hinge
- 1 - PN 27997: hold-open strut
- 1 - PN 3581: egress handle
- 8 - PN 4573T: #12 x 1/2" T25 screws
- 12 - PN 9512: #10 x 1-1/2" T25 self-drilling screws

### Install 24" x 48" Door Frame in Rough Opening:

1. Ceiling Access Doors (CAD) are designed to be installed in a 24" x 48" on center dimensional lumber opening. Frame in a rough opening of 22-9/16" x 46-9/16".
2. Cut the opening in the steel, 22-9/16" x 46-9/16", flush with the inside of the framed opening.
3. If necessary, install closure strip sealant material at each end of the opening to prevent possible air infiltration.
4. Place the CAD frame into the rough opening with the trim flange facing downward towards the building floor. Ensure door is square, then mark, a minimum of four evenly spaced locations, at high ribs, 1/4" from outer edge of frame, two on either long side of frame, for use in drilling mounting holes through trim flange (see **Photo 1**). Remove CAD frame from rough opening, place on horizontal surface, and drill 1/8" dia. mounting holes through trim flange at marked locations, 1/4" from outer edge of frame. Re-insert frame into rough opening then secure CAD frame into rough using #10 x 2.5" white head screw supplied by installer (see **Photo 2**).



Photo 1



Photo 2

5. After the door frame is fastened in place, apply a bead of caulk or silicone sealant along the inside top of frame where it intersects with the rough framing lumber. This seals the door frame into the opening and eliminates air leakage through the frame to framing lumber (see **Photo 3**).



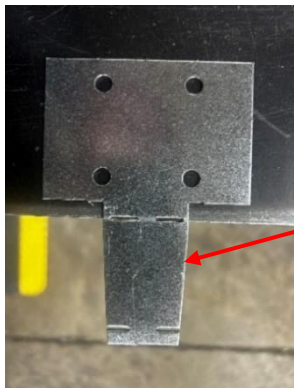
This photo is viewed from inside the attic looking down toward the building floor. Caulk/silicone sealant to be applied around the complete perimeter as shown.

**Photo 3**

**IMPORTANT:** If installing an Insulation Dam as part of this CAD unit **STOP** and go to **Insulation Dam installation instructions** and install the Insulation Dam. After the insulation dam kit has been installed continue to step 6. If not installing an insulation dam proceed to step 6.

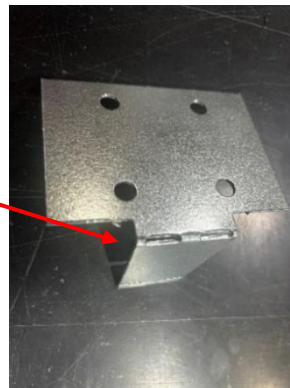
**Attach Hinges and Hold Open Strut:**

6. Bend male panel hinge 90° at perforation. Repeat with second male panel hinge (do not bend beyond 90°) (see **Photos 4 and 5**).



**PHOTO 4**

**Bend 90° at perforation**



**PHOTO 5**

7. Install male panel hinges onto door panel using pre-punched pilot holes using 8 of the supplied #12 x 1/2" screws (see **Photo 6**).



**PHOTO 6**



8. Install egress handle, opposite side from hinges, using pre-punched pilot holes on top side of the door panel with 2 of the #10 x 1-1/2" screws. (see **Photo 7**).

**PHOTO 7**



9. **Note:** Installer to determine which end of opening is best suited for hinges. If an installation dam is installed, remove installation dam screws from the hinge end. The hinge installation will secure the installation dam panel. Install self-positioning female plate hinges on 24" narrow-side of framing using 8 of the #10 x 1-1/2" screws. The female plate hinges vertical sides to be located against/in contact with each side of the 24" corners of the rough opening and rest on top of the previously installed CAD frame (see **Photo 8**).



Female hinges should be placed against RO and resting on CAD frame.



**PHOTO 8**

10. **With A.J. insulation dam:** attach the hold-open strut to the door panel on either side using the 1.5" screw in the pre-punched hole for positioning. It will be necessary to manage the hold open strut while installing the door panels during the next step. Once the door panel is installed, attach the other end of the hold open strut at the pre-punched location in the insulation dam. (photo 9)
11. **Without A.J. insulation dam:** attach the hold open strut to either side of the opening with a 1.5" screw located 25" from female-plate hinge and 1.25" up from CAD frame. Fold hinge away from female plate hinge to allow room for CAD install (**Photos 10 & 11**).



**PHOTO 9**



**PHOTO 10**



**PHOTO 11**

**Attach CAD Panel to the frame:**

12. Maneuver CAD panel up through opening confirming the hinge parts are on the same end of the opening and panel, rotate the panel so the white side is facing downward and slowly lower to align and guide male panel hinges into female plate hinges.



13. Open the door panel. Confirm that hold open strut is locked. Bend locking tabs on male panel hinges with a pliers to prevent accidental dislodging of CAD panel from frame.

