

Crossover Duct Installation Requirements

ENERGY STAR certified homes are designed to minimize duct leakage. For multi-section homes, the crossover ducts must be installed and sealed with a permanent connection per the Manufacturer's Installation Manual. Follow these steps to install a flexible crossover duct:

Step 1. Make sure the crossover duct is wrapped with insulation of at least the R-value specified by the Manufacturer.

Step 2. Slide the inner liner over the crossover collar up to and against the base of the home's trunk duct. The crossover collar must be secured to the trunk with at least three screws so that it cannot rotate or move. Duct tape may be used to temporarily hold the inner liner in place. Install a large nylon zip tie over the inner liner just above the "ridge" around the crossover collar.



Step 2



Step 3

Step 3. Bring the insulation up over the zip tie and above the home's bottom board. Crossover duct insulation must be pushed into the floor cavity. Temporarily duct tape it against the base of the trunk duct.

Step 4. Pull the outer wrap over the top of the insulation and temporarily secure it to the ductwork with duct tape.



Step 4



Steps 5 and 6

Step 5. Locate the nylon zip tie that was installed over the inner hose. Place another nylon zip tie just under the first one to permanently secure the insulation and outer wrap.

Step 6. Drill three or more 1/16-inch holes equal distance around and next to the bottom edge of the nylon zip tie. Three or more #12 pan head screws must be placed below the zip tie, through the flexible duct and into the metal crossover collar. The screw heads should be against the zip tie. Seal the connection between the bottom board and the flexible duct with foam or mastic.



Step 8

Step 7. Follow the same procedure (steps 2-6) on the other side of the home where the other end of the flex duct connects to the other half of the home. There should not be excess length of flexible duct in the system. Trim the crossover duct to length prior to fastening the second end.

Step 8. Once installed, the crossover duct must not touch the ground. Nylon or metal straps and saddles may be used for support. If clearance is not sufficient for straps, rigid foam insulation board may be placed between the ground and the crossover duct.