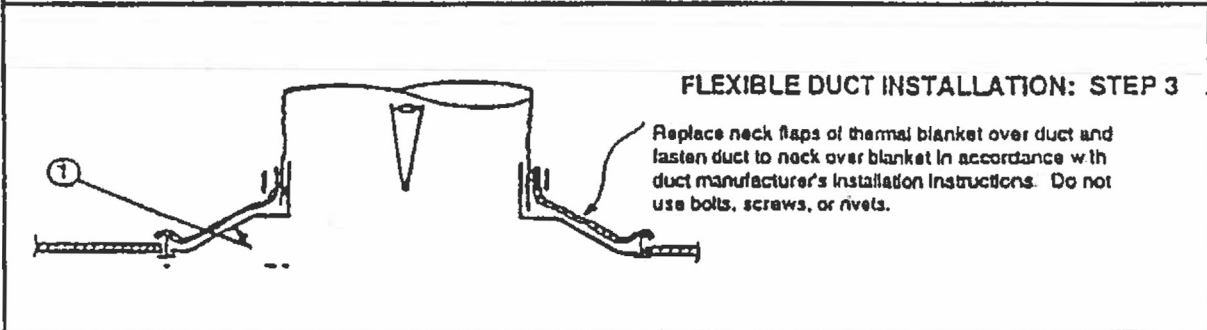
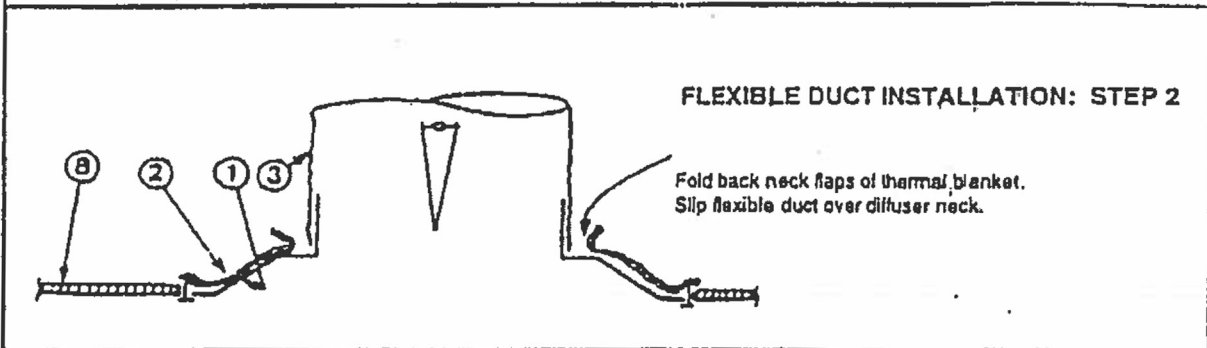
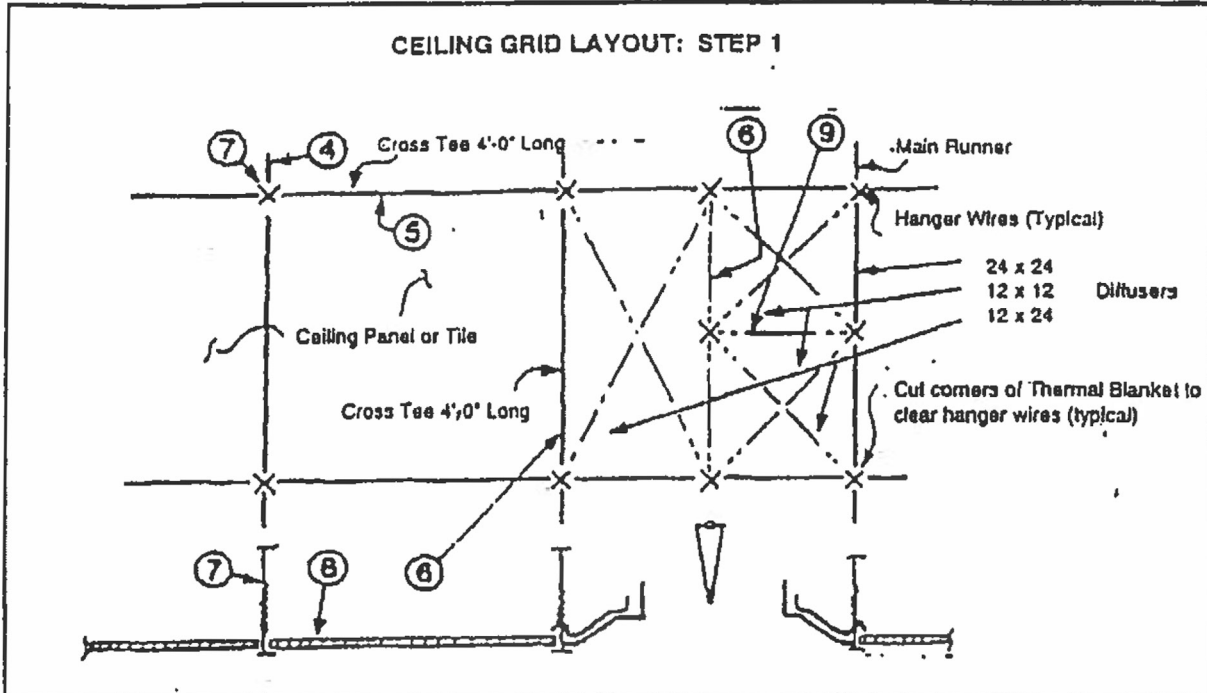


1. Follow carefully steps 1, 2, and 3 on page 2 of this document.
2. Use 12 swg galvanized steel hanger wires to independently support the T-bar grid members and the support channels to the structural members of the floor or roof above. Ensure hanger wires are plumb and straight.
3. When installing the Ceiling Fire Rated Air Diffuser or Return Air in duct drop use #8 by 1/2 inch long sheet metal screws (4 per diffuser). The screws shall not interfere with the closing of the integral classified ceiling damper of the Ceiling Fire Rated Air Diffuser or Return Air assembly.
4. Support the duct with 2-16 gauge cold rolled steel support channels, 1-1/2 inches deep with 1/2 inch flanges. Place the support channels at the bottom of the duct adjacent to both sides of the duct drop.
5. Maximum neck size of Ceiling Fire Rated Air Diffuser or Return is 20 inches diameter.
6. The clearance between the Ceiling Fire Rated Air Diffuser or Return Air neck and the duct drop shall be 1/8 inch maximum.
7. No diffuser or return air shall be located in an adjacent 24 x 48 inch ceiling grid module.
8. Ceiling Fire Rated Diffuser or Return Air assemblies are for use in lieu of the hinged blade, sheet metal damper in steel ducts as specified in the "Design Information Section-General" and in the individual floor and roof ceiling designs being used, as illustrated and described in the current U.L. "Fire Resistance Directory".
9. Fire resistive designs must cover U.L. classified ceiling grid members with appropriate cross tee sizes and slots in cross tees.



- |                                      |                      |                                    |
|--------------------------------------|----------------------|------------------------------------|
| 1. Fire Rated Diffuser or Return Air | 4. Main T-bar runner | 7. Hanger wires                    |
| 2. Thermal Blanket                   | 5. 4'-0" Cross T-bar | 8. Ceiling panel or tile           |
| 3. Flexible Duct                     | 6. 2'-0" Cross T-bar | 9. 1'-0" Cross T-bar. (See note 9) |

**\* CAUTION: REPLACE THERMAL BLANKET IF IT IS DAMAGED DURING SHIPPING OR INSTALLATION.**