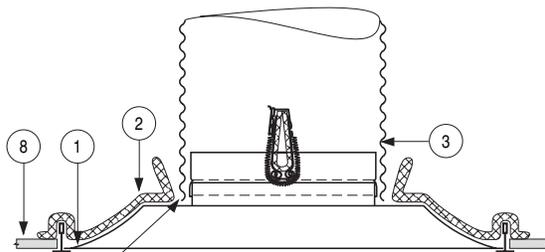
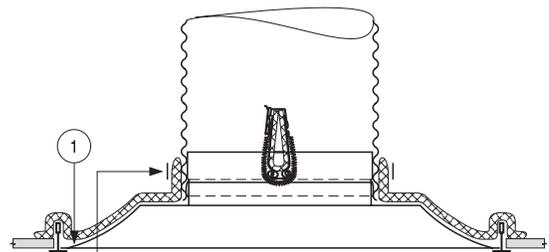


STEP 1: CEILING GRID LAYOUT



FOLD BACK NECK FLAPS OF THERMAL BLANKET. SLIP FLEXIBLE DUCT OVER THE NECK OF THE DIFFUSER.

STEP 2: FLEXIBLE DUCT



REPLACE THE NECK FLAPS OF THERMAL BLANKET OVER DUCT AND FASTEN DUCT TO NECK OVER BLANKET USING 18 SWG MIN. STEEL WIRE OR STEEL CLAMP IN ACCORDANCE WITH DUCT MANUFACTURER'S INSTALLATION INSTRUCTIONS. DO NOT USE BOLTS, SCREWS OR RIVETS.

STEP 3: THERMAL BLANKET INSTALLATION

1. Series 4000 or 4400 Diffuser
2. Ceramic fiber thermal blanket*
3. Flexible duct
4. Main T-Bar runner

*Caution: Replace thermal blanket if it is damaged during shipping or installation.

5. 4'-0" (1200) cross T-Bar
6. 2'-0" (600) cross T-Bar
7. Hanger wires
8. Ceiling panel or tile
9. 1'-0" (300) cross T-Bar. See note 9.

1. Follow carefully steps 1, 2 and 3.
2. Before installing, open damper blades and install link between spring loaded wire clips. Do not bend or deform clips after assembly. If dampers are provided with link tabs instead of wire clips, install link and bend tabs to secure link in position
3. The Flexible Air Duct Connector shall be Class 0 or Class 1 bearing the UL/ULC Classification marking. See the UL "Gas and Oil Equipment Directory" or ULC "List of Equipment and Materials". The maximum length of the flexible duct shall not exceed 14'-0" (4267) in length. No portion of the duct shall rest on the back surface of the ceiling panels or tiles and a minimum of 4" (102) clearance must be maintained. Where the flexible duct must be supported, use steel straps and 12 swg steel hanger wires.
4. The end tabs of the 2'-0" (600) Cross T-bar shall be bent back against the web of the 4'-0" (1200) Cross T-bar. The 4'-0" (1200) Cross T-bars must have slots in the web for connection of the 2'-0" (600) Cross T-bar.
5. Use 12 swg galvanized steel hanger wires to independently support the ceiling T-bars to the structural members of the floor or roof above at the four corners of the diffuser. Ensure hanger wires are plumb and straight.
6. Maximum neck size of Series 4000 and 4400 Ceiling Air Diffuser is 14" (356) diameter.
7. Caution should be observed so that the Flexible Air Duct Connector does not interfere with the operation of the Integral Classified Ceiling Damper of the Ceiling Air Diffuser Assembly.
8. No diffusers shall be located in an adjacent 24" x 48" (600 x 1200) ceiling grid module.
9. Series 4000 and 4400 Ceiling Air Diffuser Assemblies are for use in lieu of the hinged blade, sheet metal damper in steel ducts with steel diffusers or grilles as specified in the "Design Information Section - General" and in the individual floor and roof ceiling design(s) being used, as illustrated and described in the current U.L. "Fire Resistance Directory" or ULC "List of Equipment and Materials".
10. Fire resistive designs must cover UL/ULC Classified Ceiling Grid Members with appropriate cross tee sizes and slots in cross tees.

The following manufacturers currently supply 1'-0" (300) long cross tees that are UL and/or ULC Classified:

- Armstrong World Industries Inc.
- CGC Interiors, Division of CGC Inc.
- Chicago Metallic Corp.
- USG Interiors Inc.

Cartons of Grid Members shall be of the same type and bear the UL and/or ULC Classification marking.

Dimensions are in inches (mm).

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Houston, Texas
Tel: 281-590-1172
Fax: 281-590-3086

Las Vegas, Nevada
Tel: 702-648-5400
Fax: 702-638-0400

Toronto, Canada
Tel: 416-744-3300
Fax: 416-744-3360

Calgary, Canada
Tel: 403-279-8619
Fax: 403-279-5035