SQ. CONE & PERF. FIRE RATED DIFFUSER INSTALLATION INSTRUCTIONS

INSTALLATION INSTRUCTIONS

1. FOLLOW STEPS "A" & "B" AS SHOWN.
2. THE FLEXIBLE AIR DUCT SHALL BE CLASS "O" OR CLASS "1" UL CERTIFIED (SEE UL GAS & OIL EQUIPMENT DIRECTORY). THE MAX LENGTH SHALL NOT EXCEED 14'-0" (4267). WHERE FLEX. AIR DUCT SUPPORT IS REQUIRED, USE STEEL STRAPS AND #12 SWG STEEL HANGER WIRE.
3. THE 4'-0" CROSS TEES MUST HAVE SLOTS IN THE WEB FOR CONNECTING THE 2'-0" CROSS TEES. END TABS OF THE 2'-0" CROSS TEE MUST BE BENT BACK AGAINST THE WEB OF THE 4'-0" TEES.
4. SUSPEND CEILING TEES INDEPENDENTLY AT THE 4 CORNERS OF DIFFUSER ASSEMBLY. USE #12 SWG GALVANIZED STEEL HANGER WIRE AND SECURE TO THE FLOOR OR ROOF ABOVE.
5. MAXIMUM ROUND NECK SIZE OF THE FIRE RATED DIFFUSER ASSEMBLY IS 15" (381) DIAMETER.
6. NO DIFFUSER & CEILING RADIATION DAMPER ASSEMBLY SHALL BE LOCATED IN AN ADJACENT 24" X 48" (610 x 1219) CEILING MODULE.
7. INSTALLATION OF 12'X12" (304X304) DIFFUSER ASSEMBLY IS SIMILAR TO THE ABOVE. REWORK TEE BAR AND GRID TO PROVIDE 4- CORNER TEE SUSPENSION OF 12'X12" (304X304) ASSEMBLY. END TABS OF ALL CROSS TEE BARS MUST ENTER SLOTS IN CONNECTING TEES AND MUST BE BENT BACK AGAINST THE WEB OF THE CONNECTING TEES.
8. INSTALLATION OF THERMAL BLANKET ON THE DIFFUSER ASSEMBLY IS DONE AT THE FACTORY. HOWEVER IF IT NEEDS TO BE REMOVED AND REINSTALLED, FIT THE BLANKET OVER THE DIFFUSER NECK BEFORE DUCT IS FASTENED. THERMAL BLANKET MUST TOTALY COVER THE BACKPAN.

TYPICAL COMPONENTS

BY PRICE INDUSTRIES:
1. SQUARE CONE DIFFUSER C/W CEILING RADIATION DAMPER
2. THERMAL BLANKET CK-2000-B
3. STEEL (NECK) CLAMP - OR WIRE.
4. AIR DUCT (FLEXIBLE OR RIGID)
5. MAIN TEE RUNNER
6. CROSS TEE BAR 4'-0" OR 1200mm
7. CROSS TEE BAR 2'-0" OR 600mm
8. SUSPENSION HANGER WIRE.
9. CEILING TILE OR PANEL

ALL METRIC DIMENSIONS ( ) ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

PROJECT:

ENGINEER:
CUSTOMER:
SUBMITTAL DATE:
SPEC. SYMBOL:

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SQ. MODULAR FIRE RATED ASSEMBLY INSTALLATION INSTRUCTIONS

INSTALLATION INSTRUCTIONS

1. FOLLOW STEPS "A" & "B" AS SHOWN.
2. THE FLEXIBLE AIR DUCT SHALL BE CLASS 0 OR CLASS I.
   UL CERTIFIED (SEE UL GAS & OIL EQUIPMENT DIRECTORY).
   THE MAX LENGTH SHALL NOT EXCEED 14'-0" (4267).
   WHERE FLEX. AIR DUCT SUPPORT IS REQUIRED, USE
   STEEL STRAPS AND #12 SWG STEEL HANGER WIRE.
3. THE 4'-0" CROSS TEES MUST HAVE SLOTS IN THE WEB
   FOR CONNECTING THE 2'-0" CROSS TEES. END TABS OF
   THE 2'-0" CROSS TEE MUST BE BENT BACK AGAINST THE
   WEB OF THE 4'-0" TEES.
4. SUSPEND CEILING TEES INDEPENDENTLY AT THE 4
   CORNERS OF DIFFUSER ASSEMBLY. USE #12 SWG
   GALVANIZED STEEL HANGER WIRE AND SECURE
   TO THE FLOOR OR ROOF ABOVE.
5. ROUND NECKS ARE AVAILABLE AS AN OPTION AND ARE
   AVAILABLE UP TO 15" (381) DIAMETER. MAXIMUM SQUARE
   NECK SIZE OF THE FIRE RATED DIFFUSER ASSEMBLY IS
   18" X 16" (457X457).
6. NO DIFFUSER & CEILING RADIATION DAMPER
   ASSEMBLY SHALL BE LOCATED IN AN ADJACENT
   24" X 48" (610 X 1219) CEILING MODULE.
7. INSTALLATION OF 12" (304) & 20" (508) SQUARE DIFFUSER
   ASSEMBLY IS SIMILAR TO THE ABOVE. REWORK TEE BAR
   GRID TO PROVIDE 4-CORNER TEE SUSPENSION OF
   12" (304) OR 20" (508) SQUARE ASSEMBLY. END TABS OF
   ALL CROSS TEE BAR MUST ENTER SLOTS IN CONNECTING
   TEES AND MUST BE BENT BACK AGAINST THE WEB OF
   THE CONNECTING TEES.
8. INSTALLATION OF THERMAL BLANKET ON THE DIFFUSER
   ASSEMBLY IS DONE AT THE FACTORY. HOWEVER IF IT
   NEEDS TO BE MOVED AND REINSTALLED, FIT THE BLANKET
   OVER THE DIFFUSER NECK WITH CREASE UP BEFORE DUCT
   IS FASTENED AND TUCK EDGES TO TEE BARS. THE
   THERMAL BLANKET MUST TOTALY COVER THE BACKPAN.

NOTE: SECURE FLEXIBLE DUCT WITH APPROVED STEEL
CLAMP OR WIRE. DO NOT USE BOLTS, SCREWS OR
RIVETS AS THEY COULD INTERFERE WITH DAMPER
BLADE OPERATION.

STEP "B" FLEXIBLE DUCT CONNECTION
(CROSS SECTIONAL DETAIL OF DIFFUSER INSTALLATION)

INSTALLATION OF 12" X 12" OR
300mm x 300mm

TYPICAL COMPONENTS
BY PRICE INDUSTRIES:
1. SQUARE MODULAR DIFFUSER C/W
   CEILING RADIATION DAMPER
2. THERMAL BLANKET CK-2000-B
BY OTHERS:
3. - STEEL (NECK) CLAMP - OR WIRE.
4. - AIR DUCT (FLEXIBLE OR RIGID)
5. - MAIN TEE RUNNER
6. - CROSS TEE BAR 4'-0" OR 1200mm
7. - CROSS TEE BAR 2'-0" OR 600mm
8. - SUSPENSION HANGER WIRE.
9. - CEILING TILES OR PANEL
**Installation Instructions**

1. Follow steps "A" & "B" as shown.
2. The flexible air duct shall be Class 0 or Class 1 UL certified (see UL Gas & Oil Equipment Directory). The max length shall not exceed 14'-0" (4267). Where flex. air duct support is required, use steel straps and #12 SWG steel hanger wire.
3. The 4'-0" cross tees must have slots in the web for connecting the 2'-0" cross tees. End tabs of the 2'-0" cross tee must be bent back against the web of the 4'-0" tees.
4. Suspend ceiling tees independently at the 4 corners of diffuser assembly. Use #12 SWG galvanized steel hanger wire and secure to the floor or roof above.
5. Round necks are available as an option and are available up to 15" (381) diameter. Maximum square neck size of the fire rated diffuser assembly is 18"x18" (457x457).
6. No diffuser & ceiling radiation damper assembly shall be located in an adjacent 24" x 48" (610 x 1219) ceiling module.
7. Installation of 12" (304) & 20" (508) square diffuser assembly is similar to the above. Rework tee bar and grid to provide 4' corner tee suspension of 12" (304) or 20" (508) square assembly. End tabs of all cross tee bars must enter slots in connecting tees and must be bent back against the web of the connecting tees.
8. Installation of thermal blanket on the diffuser assembly is done at the factory. However, if it needs to be removed and reinstalled, fit the blanket over the diffuser neck with creases up before duct is fastened and tuck edges to tee bars. The thermal blanket must totally cover the backpan.

**Typical Components**

- By Price Industries:
  1. Square panel diffuser C/W ceiling radiation damper
  2. Thermal blanket CK-2000-B
- By others:
  3. Steel (neck) clamp or wire.
  4. Air duct (flexible or rigid)
  5. Main tee runner
  6. Cross tee bar 4'-0" or 1200mm
  7. Cross tee bar 2'-0" or 600mm
  8. Suspension hanger wire.
  9. Ceiling tile or ceiling panel

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**Project:**

**Engineer:**

**Customer:**

**Submittal Date:**

**Spec. Symbol:**

**Fire Rated Assembly Installation Instructions**

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