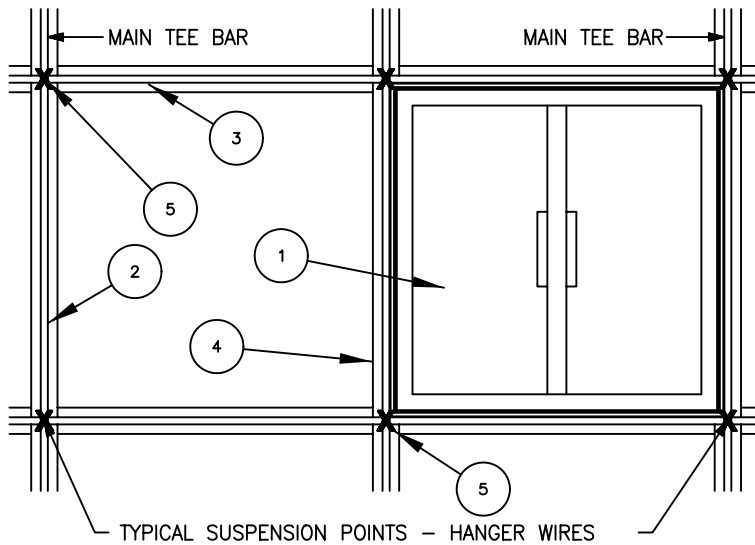


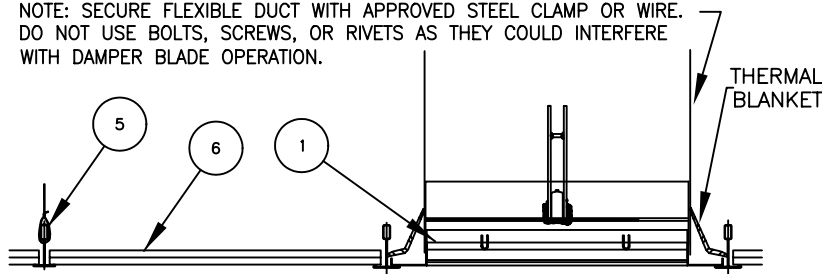
500-FR SERIES INSTALLATION INSTRUCTIONS



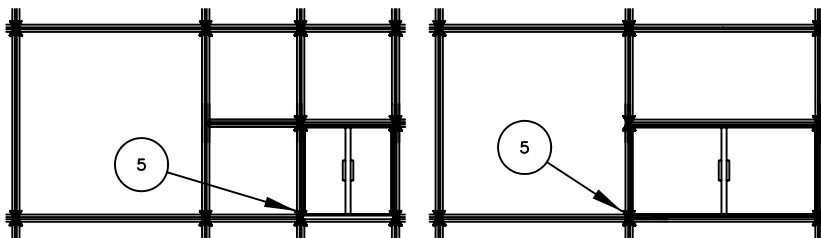
STEP "A" CEILING GRID LAYOUT

- CAN BE DUCTED OR NON-DUCTED, DUCTED SHOWN -

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" INSTALLATION OF 500 -FR SERIES



INSTALLATION OF 12" x 12" OR 300mm x 300MM 530-FR OR 535-FR

INSTALLATION OF 12" x 24" OR 300mm x 600MM 530-FR OR 535-FR

INSTALLATION INSTRUCTIONS

1. FOLLOW STEPS "A" & "B" AS SHOWN.
2. IF REQUIRED THE FLEXIBLE DUCT SHALL BE CLASS "0" OR CLASS "1" UL/ULC 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 SUPPORT IS 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 RETURN AIR GRILLE. USE #12 SWG GALVANIZED STEEL HANGER WIRE AND SECURE TO THE FLOOR OR ROOF ABOVE.
5. MAXIMUM SIZE OF THE 530-FR OR 535-FR RETURN AIR GRILLE ASSEMBLY IS NOMINAL 24" x 24" (610 x 610).
6. NO RETURN AIR GRILLE ASSEMBLY SHALL BE LOCATED IN AN ADJACENT 24" x 48" (610 x 1219) CEILING MODULE.
7. INSTALLATION OF A 12" x 12" (305 x 305), 12" x 24" (305 x 610) OR 300 x 300mm & 300 x 600mm 530-FR OR 535-FR RETURN GRILLE ASSEMBLY IS SIMILAR TO ABOVE. REWORK THE TEE BAR GRID AND PROVIDE 4-CORNER SUSPENSION OF RETURN AIR GRILLE AND CD-RD 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. THERMAL BLANKET MUST TOTALLY COVER THE FRAME AND NECK UP TO THE DAMPER BLADES. THERMAL BLANKET IS SECURED WITH THE DAMPER MOUNTING SCREWS.
9. INSTALLATION METHOD IS TYPICAL FOR MODEL 530-FR AND MODEL 535-FR, RETURN AIR GRILLE FIRE RATED ASSEMBLIES.

TYPICAL COMPONENTS

BY E.H.PRICE:

- 1. 530-FR LOUVERED RETURN AIR GRILLE ASSEMBLY - OR -
- 535-FR LOUVERED RETURN AIR GRILLE ASSEMBLY

BY OTHERS:

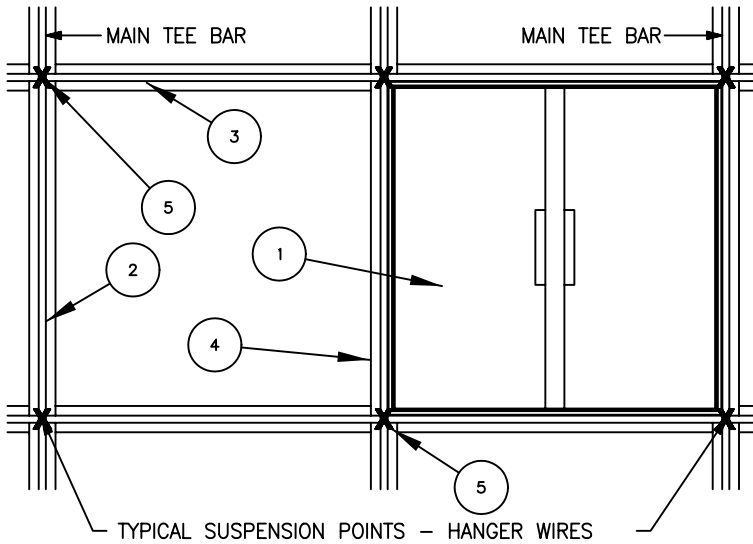
- 2. - MAIN TEE RUNNER
- 3. - CROSS TEE BAR 4'-0" OR 1200mm
- 4. - CROSS TEE BAR 2'-0" OR 600mm
- 5. - SUSPENSION HANGER WIRE.
- 6. - CEILING TILE OR PANEL



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

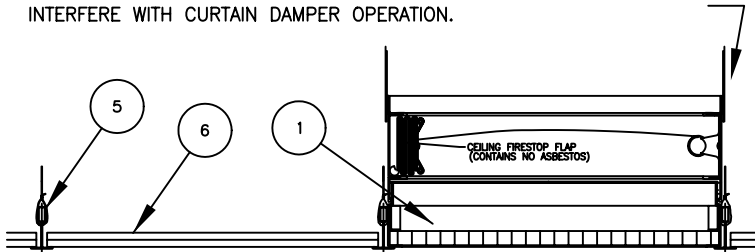
| | | | |
|------------------------|----------------------|---------------|---|
| PROJECT: | | PRICE® | |
| ENGINEER: | | 228793 | 500-FR SERIES RETURN GRILLES & REGISTERS FIRE RATED ASSEMBLY INSTALLATION INSTRUCTIONS |
| CUSTOMER: | | | |
| SUBMITTAL DATE: | SPEC. SYMBOL: | APRIL 2002 | |

80FR, 10FR INSTALLATION INSTRUCTIONS

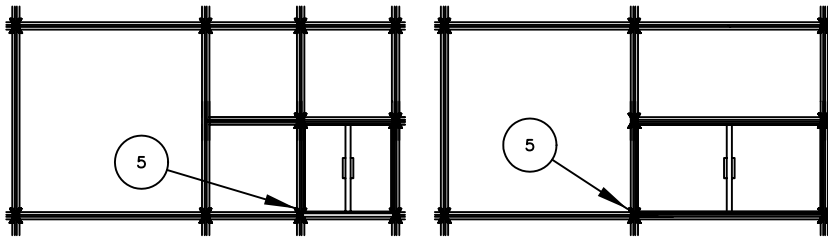


**STEP "A" CEILING GRID LAYOUT
- CAN BE DUCTED OR NON- DUCTED. DUCTED SHOWN-**

NOTE: SECURE DUCT CAREFULLY SO THAT THE FASTENERS DO NOT INTERFERE WITH CURTAIN DAMPER OPERATION.



**STEP "B" INSTALLATION OF 80FR OR 10FR
(80 FR SHOWN)**



INSTALLATION OF 12" x 12" OR 300mm x 300mm 80FR OR 10FR

INSTALLATION OF 12" x 24" OR 300mm x 600mm 80FR OR 10FR

TYPICAL COMPONENTS

BY E.H.PRICE:

- 1. 80FR RETURN AIR GRILLE ASSEMBLY
- OR -
 10FR PERFORATED RETURN AIR GRILLE ASSEMBLY

BY OTHERS:

- 2. - MAIN TEE RUNNER
- 3. - CROSS TEE BAR 4'-0" OR 1200mm
- 4. - CROSS TEE BAR 2'-0" OR 600mm
- 5. - SUSPENSION HANGER WIRE.
- 6. - CEILING TILE OR PANEL

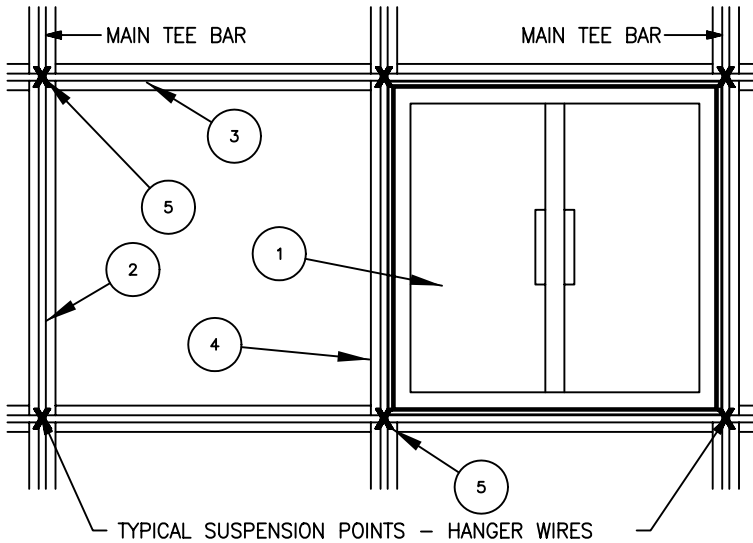


ALL METRIC DIMENSIONS () ARE SOFT CONVERTED. IMPERIAL DIMENSIONS ARE CONVERTED TO METRIC AND ROUNDED TO THE NEAREST MILLIMETER.

| | | | |
|------------------------|----------------------|--------------------------|--|
| PROJECT: | | PRICE[®] | |
| ENGINEER: | | 228794 | 80FR, 10FR RETURN GRILLE FIRE RATED ASSEMBLY INSTALLATION INSTRUCTIONS |
| CUSTOMER: | | | |
| SUBMITTAL DATE: | SPEC. SYMBOL: | APRIL 2002 | |

FILTER FRAME SERIES INSTALLATION INSTRUCTIONS

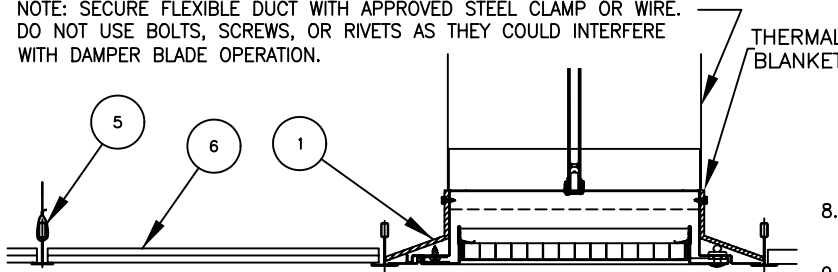
INSTALLATION INSTRUCTIONS



STEP "A" CEILING GRID LAYOUT

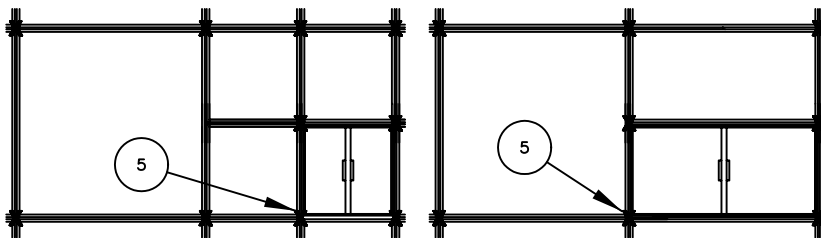
- CAN BE DUCTED OR NON-DUCTED, DUCTED SHOWN -

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" INSTALLATION OF UNIT (80FF-FR SERIES SHOWN)

1. FOLLOW STEPS "A" & "B" AS SHOWN.
2. IF REQUIRED THE FLEXIBLE DUCT SHALL BE CLASS "1" OR CLASS "1" UL/ULC 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 SUPPORT IS 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 RETURN AIR GRILLE. USE #12 SWG GALVANIZED STEEL HANGER WIRE AND SECURE TO THE FLOOR OR ROOF ABOVE.
5. MAXIMUM SIZE OF THE UNIT IS NOMINAL 24" x 24" (610 x 610).
6. NO UNIT SHALL BE LOCATED IN AN ADJACENT 24" X 48" (610 x 1219) CEILING MODULE.
7. INSTALLATION OF A 12" x 12" (305 x 305), 12" x 24" (305 x 610) OR 300 x 300mm & 300 x 600mm UNIT IS SIMILAR TO ABOVE. REWORK THE TEE BAR GRID AND PROVIDE 4-CORNER SUSPENSION OF UNIT AND CD-RD 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. THERMAL BLANKET MUST TOTALLY COVER THE FRAME AND NECK UP TO THE DAMPER BLADES.
9. INSTALLATION METHOD IS TYPICAL FOR ALL FIRE RATED UNITS THAT INCORPORATE FILTER FRAMES.



INSTALLATION OF 12" x 12" OR 300mm x 300MM UNIT

INSTALLATION OF 12" x 24" OR 300mm x 600MM UNIT

TYPICAL COMPONENTS

BY E.H.PRICE:

1. □ 530FF-FR, 535FF-FR LOUVERED RETURN AIR GRILLE ASSEMBLY
- OR -
□ 10FF-FR, 80FF-FR RETURN AIR GRILLE ASSEMBLY

BY OTHERS:

2. - MAIN TEE RUNNER
3. - CROSS TEE BAR 4'-0" OR 1200mm
4. - CROSS TEE BAR 2'-0" OR 600mm
5. - SUSPENSION HANGER WIRE.
6. - CEILING TILE OR PANEL



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

| | | | |
|------------------------|----------------------|------------------------------|--|
| PROJECT: | | PRICE® | |
| ENGINEER: | | <i>Handwritten Signature</i> | FF-FR SERIES FILTER FRAME INSTALLATION INSTRUCTIONS |
| CUSTOMER: | | 230759 | |
| SUBMITTAL DATE: | SPEC. SYMBOL: | APRIL 2002 | |