CFD7T-SR SERIES

Installation Instructions

Ceiling Dampers For Wood Truss Assemblies UL555C 1 Hour Rated



APPLICATION

Model CFD7T-SR is designed to function as a heat barrier in HVAC openings penetrating ceilings constructed from wood trusses. The CFD7T-SR has been UL tested to provide protection in UL ceiling design L528, L546, L558, L574, L585, L586, L592, P533, P538, P545, P548, P572, P580 and H502. These designs are also similar to the fire resistance rated ceiling construction described in the International Building Code. Unlike other ceiling dampers designed and tested for wood truss applications, the CFD7T-SR is supplied with a R6 insulated steel plenum box with round CFDR7T mounted on top of the plenum box. The CFD7T-SR is also UL approved for installation with duct connection below the membrane penetration.

CFD7T-SR is designed to accept a grille with an OBD up to a maximum of 3" in depth.



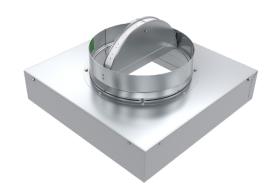
The ceiling damper and associated components (air devices, duct, duct drop, etc.) must be constructed of steel. The grille/diffuser frame shall be minimum of 26 gauge (0.55) steel. Nonferrous air devices or through ceiling membrane penetration a steel plaster flange is required. Flexible duct must be class 0 or 1 type and bear the UL listing mark and shall be attached to the plenum collar with steel clamps, plastic straps, or minimum 18 gauge steel wire. Fiberglass ductboard plenum box shall be UL 181 listed. Field supplied plenum boxes not to exceed 10 lb. The installation and air device shown in these instructions illustrate general arrangements only. Installation must incorporate applicable requirements for the specific Floor/ceiling or Roof/ceiling construction in the UL Fire Resistance Directory.

CEILING PENETRATIONS

Ceiling penetrations should be located between adjacent truss and RC or Furring channels. If required, a maximum of one RC or Furring channel may be cut or notched to enable proper damper location. The clearance between the damper assembly and the cutout in the ceiling material shall be a maximum of 1/8" (3) on any side.

CEILING PENETRATIONS

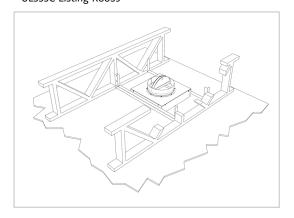
- ▶ Support Angle to Damper: minimum of two #8 sheet metal screws, 3/16" (4) tubular rivets, tack or spot-welds per angle.
- ➤ Support Angle to Truss: minimum of #8 x 3/4" long screw or #6 penny nail 1" long (25).
- ▶ Grill/Diffuser frame to damper: minimum of two #8 x 1 1/4" (32) min. screws through the ceiling material and into the plaster flange or sub-frame.
- ▶ Retaining Angle to Plaster Flange or Sub-frame: minimum of #8 x 1 1/4" (32) min. screws through the ceiling material and into the plaster flange or sub-frame. One screw per side required on units 10" (254) long and under, and two screws per side on units above 10" (254) long. Round units maximum of 3 screws required.
- Make sure fasteners do not interfere with the damper operation.
- ▶ Wrap the damper assembly with 3 1/2" thick, unfaced, R11 fiberglass insulation to be wrapped around the outside of the assembly with ends of insulation overlapped by 4". Top piece of insulation to be cut 2" longer on each side of box for snug fit. Secure the thermal blanket to the damper with two, minimum of 16 SWG steel wire lengths or steel clamps. Insulation not to interfere with blade closure. (Field supplied and installed)





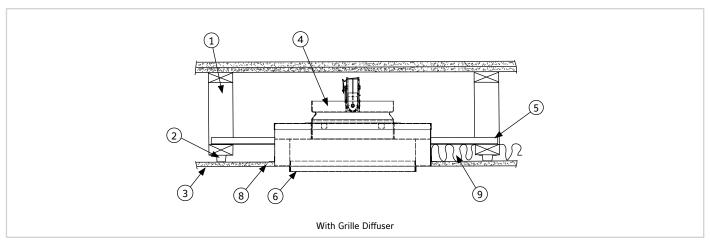
California State Fire Marshal Listing No. 3226-0245:0123

UL CLASSIFIED UL555C Listing R8039



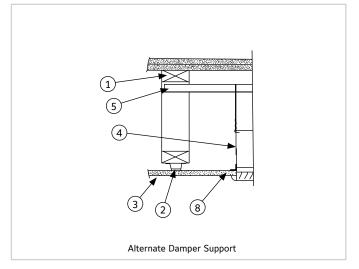
NOTE

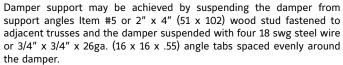
- Dimensions shown in parentheses () indicate millimeters.

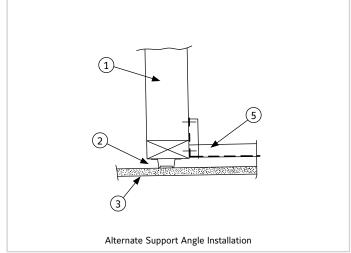


ITEM	DESCRIPTION
1	Wood Truss Assembly (Refer to UL Fire Resistance Directory)
2	RC Channel or Furring Channel or Steel Framing Members
3	UL rated gypsum wallboard (See UL design No.)
4	Ceiling Radiation Damper
5	3/4" x $3/4$ " x 16 ga. (19 x 19 x 1.61) or $11/2$ " x $11/2$ " x 22 ga. (38 x 38 x $.85$) Support Angle (2 sides) See Note 1

ITEM	DESCRIPTION
6	Steel Frame Grille Diffuser
7	1" x 1" x 22 ga. (25 x 25 x .85) Retaining Angle on all 4 sides
8	Sub-frame or plaster flange
9	Insulation (optional)

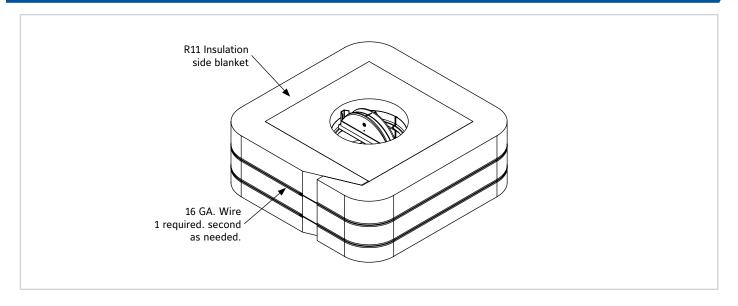






Cut the vertical leg of the support angle and fold up 90° both ends. Attach support angle to the inside leg of the truss with minimum of 2 - #8 screws or nails per angle.

INSULATED ASSEMBLY



1 LINKS TO IMPORTANT DOCUMENTS

Document Title
Spec Sheet



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