

CFD21 CEILING FIRE DAMPER 1 HOUR RATED CEILING DAMPERS FOR WOOD TRUSS ASSEMBLIES

APPLICATION

The CFD21 is a ceiling radiation damper box assembly designed to be installed in air ducts penetrating fire resistive membrane ceilings like L521, L546 and P522. The assembly consists of a UL555C tested ceiling damper factory installed in an R6 insulated box. The CFD21 is ARL classified and may be applied where the air duct terminates at a grille or where the air duct "through penetrates" the ceiling assembly.

STANDARD CONSTRUCTION

FRAME

20 gage (.9) rollformed galvanized steel.

BLADE

20 gage (.9) galvanized steel butterfly style blades with stainless steel closure spring and insulation (as required).

DUCTBOARD BOX

R6 insulated, 11 $\frac{1}{2}$ " (292) tall box. Outer skin is 26 gage galvanized steel.

FUSIBLE LINK

165°F (74°C) is standard. 212°F (100°C) and 285°F (141°C) is available at no additional cost.

FINISH

Mill.

MINIMUM SIZE (I.D.)

6"w x 4"h (152 x 102).

MAXIMUM SIZE (I.D.)

14"w x 14"h (356 x 356).

AVAILABLE COLLAR SIZES

4" thru 9" (102 thru 229) only.

NOTE

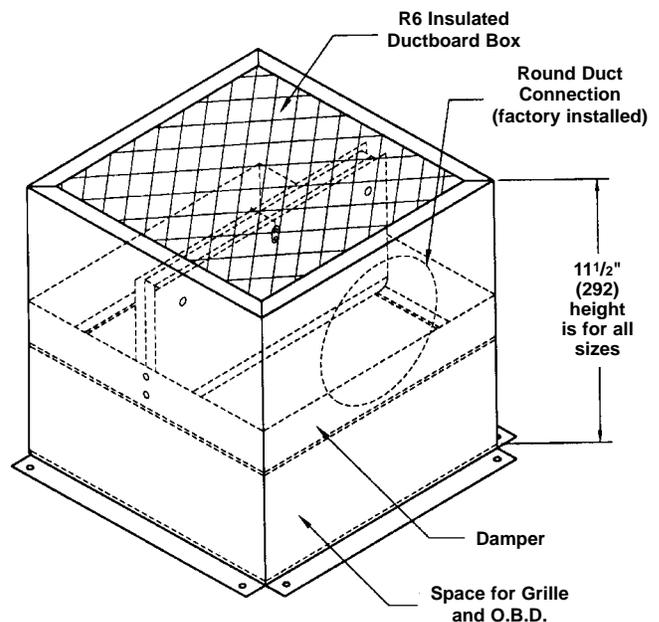
Dimensions in parenthesis () indicate millimeters.

Model CFD21 meets the requirements for ceiling dampers established by:

- National Fire Protection Association NFPA Standard 90A
- BOCA National Building Codes
- ICBO Uniform Building Codes
- SBCCI Standard Building Codes
- ICC International Building Codes

ARL CLASSIFIED

Applied Research Laboratories Classified Ceiling Radiation Dampers tested to Standard UL555C.



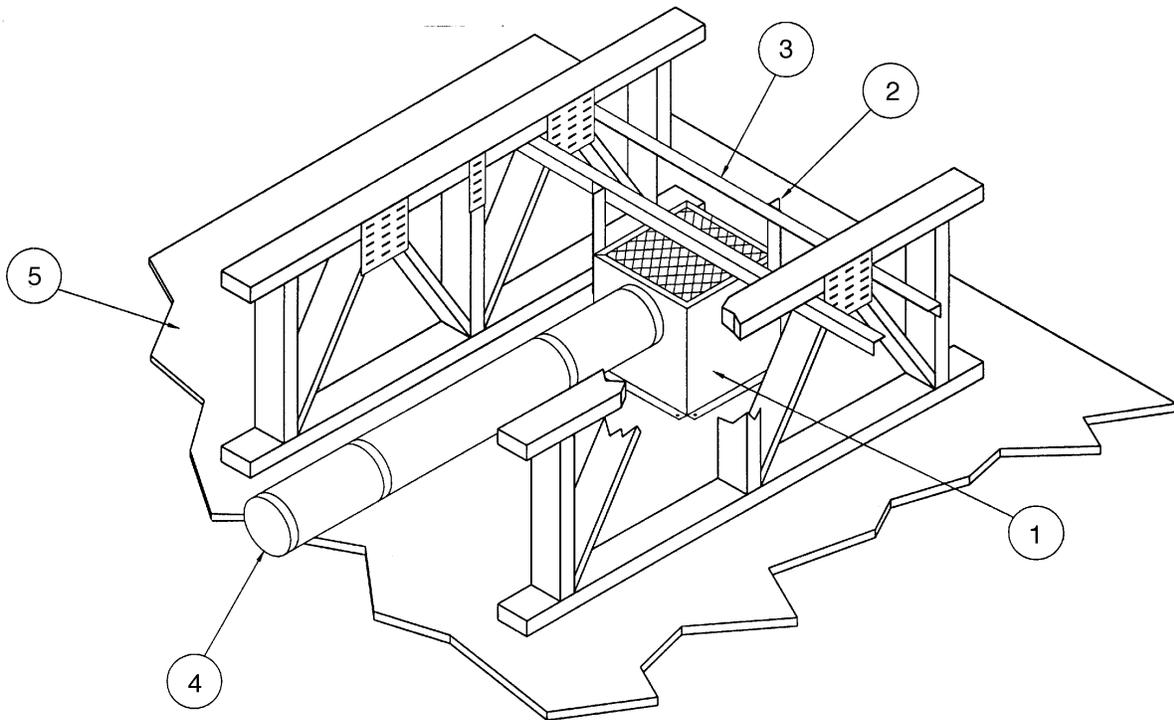
SUGGESTED SPECIFICATION

Furnish and install at locations shown on the plans, ceiling dampers tested for wood truss ceiling assemblies like L521, L546 and P522. Fire dampers with 1 1/2 or 3 hour ratings for walls or floors are not to be used in fire rated ceiling openings. All installations shall be in accordance with manufacturer's published installation instructions. Ceiling dampers are to be factory installed in a 11 1/2" (292) tall R6 insulated ductboard box with a 1" (25) turned out flange and 1/2" (13) drywall lip.

The box shall have an outer skin of 26 gage galvanized steel except on the top. The top of the box shall be duct board only to allow easy installation of a round duct connection. The damper shall be installed in the box in a manner that allows the field installation of a grille with an OBD (opposed blade damper). Ceiling damper assembly shall be Ruskin model CFD21.

TYPICAL INSTALLATION

Refer to Installation Instructions for installation details.



DESCRIPTION

1. Damper box assembly
2. 1" x 1" x 26 gage angle or 18 SWG wire
3. 1" x 1" x 26 gage angle or 2" x 4" wood stud
4. Flex duct
5. Ceiling assembly

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