

CFD(R)2, 3, 3.5 and CFD4, 8

Installation Supplement

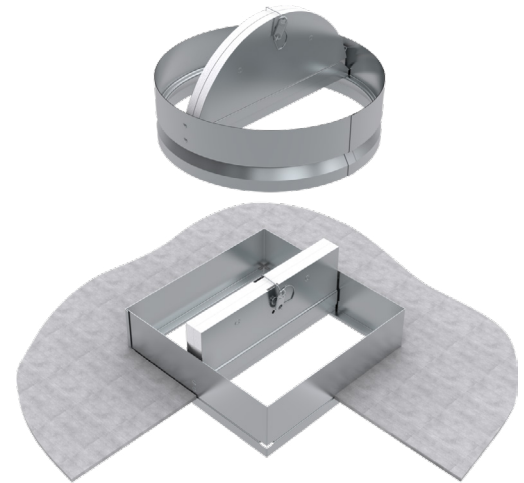
Ceiling Dampers



APPLICATION

Models CFD(R)2, CFD(R)3, CFD(R)3.5, CFD4 and CFD8 are UL labeled ceiling radiation dampers. When installed as shown, they provide appropriate protection for air inlet or outlet penetrations in the ceiling membrane of floor/ceiling and roof/ceiling assemblies with fire resistance ratings of up to 1 hour.

Item	Description
1	Floor or roof assembly
2	Wood truss
3	Air duct (insulated)
4	Ceiling damper
5	Gypsum board
6	Grille (by others)



INSULATED STEEL DUCT DROP

- Opening in ceiling membrane to be the same size as the outside of the ceiling radiation damper.
- Connection of ceiling radiation damper, grille and steel duct drop may be satisfied in two ways:
 1. Ceiling radiation damper and grille neck may be connected directly to the insulated steel duct drop (see Detail 1).
 2. Ceiling radiation damper may be connected directly to the grille neck and then the insulated steel duct drop connected to the damper (see Detail 2).

Connections - Damper to Duct and Damper to Grill or Angle

Connections must be made using #8 sheet metal screws, 3/16" (4) tubular steel rivets, tack or spot welds spaced 6" (152) on center. Use a minimum of one connection per side for rectangular or square dampers and three equally spaced connections for round dampers. Connections must not interfere with damper blade operation.

Non-Ferrous Air Devices

Air devices that have non-ferrous frames.

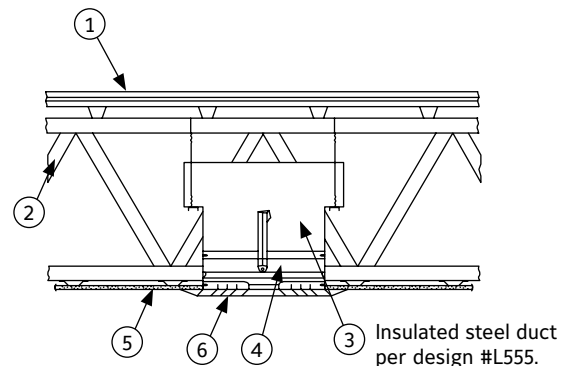
Ceiling membrane openings that utilize air device constructed from material other than steel require one of the following:

1. An insulated steel duct drop should extend to the bottom surface of the ceiling membrane and the opening in the ceiling membrane should be equal to the outside of the duct drop (see Detail 3).
2. A steel angle should be attached to the bottom of the ceiling radiation damper and span from the ceiling radiation damper to the bottom of the ceiling membrane. Angle may be on top or bottom of ceiling membrane. The steel angle should overlap the ceiling membrane (see Details 4 & 5).

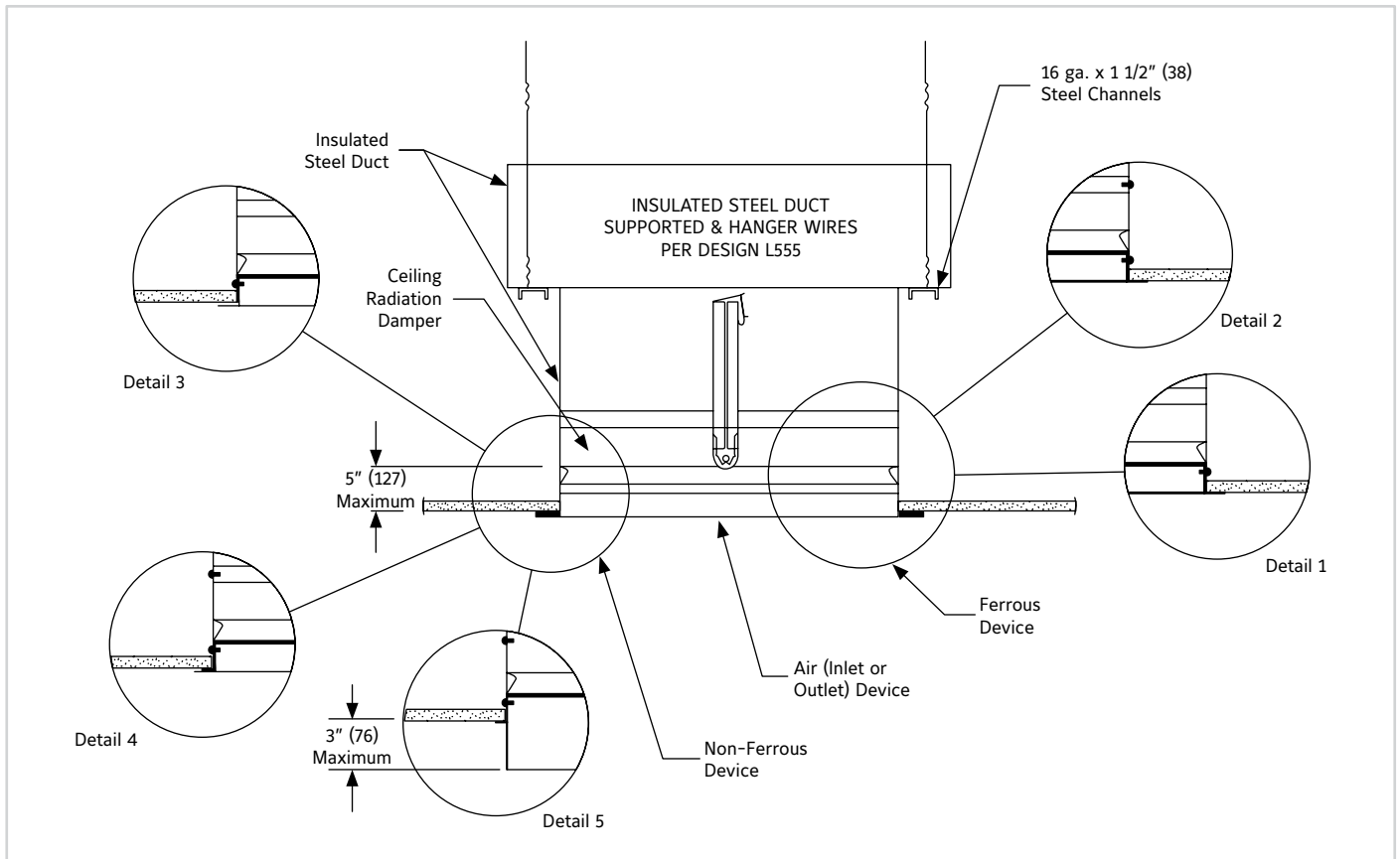


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MARKING ON PRODUCT

California State Fire Marshal Listing No. 3225-245:101



INSULATED STEEL DUCT DROP



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Product Data/submittals



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