



**CEILING RADIATION DAMPER**  
FOR WOOD TRUSS CEILING ASSEMBLIES  
ETL CLASSIFIED UL263/E119  
INCORPORATES ETL CLASSIFIED UL555C DAMPER  
INSULATED REGISTER BOX • TOP INLET  
**MODEL: 505RD**



**QUALIFICATIONS:**

**ETL CLASSIFIED UL263/E119 CEILING DAMPER**

Approved for use in 1 hour fire rated floor/ceiling and roof/ceiling assembly constructed in accordance with material and construction specifications of UL design number: L521, L528, L546, L550, L558, L562, L563, L570, L574, L579, L585, L586, M503, P522, P531, P533, P538, P545, P547, P548, and P552.

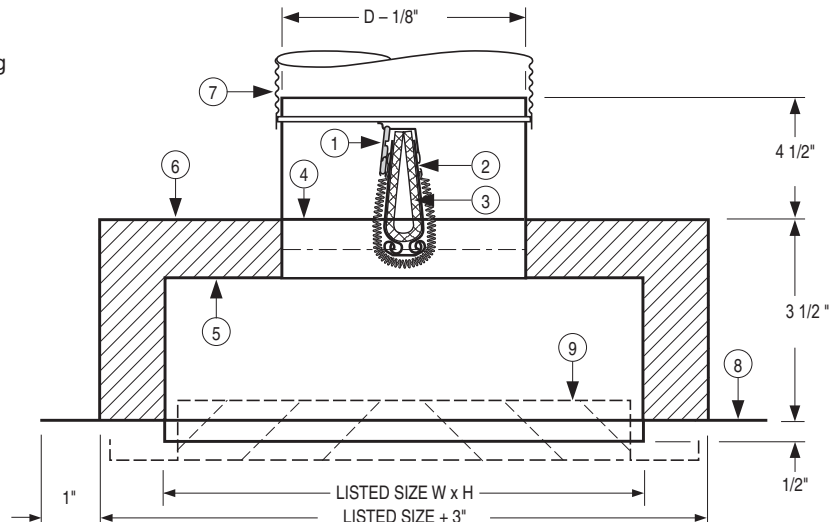
**Incorporates ETL Classified UL555C evaluated ceiling damper.**

Meets NFPA 90A requirements.

**DESCRIPTION:**

Ceiling dampers are designed to function as a heat barrier in air handling openings penetrating fire resistive membrane ceilings. The model 505RD has been especially designed to provide protection and simple installation in specific design wood truss ceiling assemblies.

The 505RD assembly consists of a ceiling damper mounted in the round top inlet collar of an internally insulated sheet metal register box (boot) that accommodates a steel grille or register.



**CONSTRUCTION:**

1. Listed fusible link, 212°F (100°C) standard.
2. Blades: 21 GA G60 roll-formed galvanized steel.
3. Blade Insulation: Non-asbestos classified.
4. Damper frame: 21 GA G60 galvanized steel.
5. Internal Insulation: 1 1/2" thick. R-Value 6.3.
6. Steel plenum: 24 GA max. with round connection collar
7. Classified Class 0 or I flexible air duct connection by others.
8. Plaster flange: 1" wide x 1/2" deep.
9. Steel grille / register (by others). Minimum depth for grille clearance is 2-1/2".

\*Maximum Area Size: 144 square inches  
(No one dimension greater than 14")

Collar Size: 4"-10"

Minimum size: 6 x 4

Maximum size: Square: 12 x 12

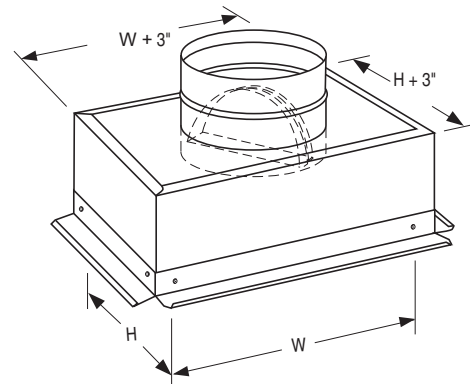
Maximum size: Rectangular: 14 x 10

**OPTIONS:**

- Non-standard temp. listed fusible link 165°F (74°C).
- Installation support angles. 26" long.
  - \* 2 @ Standard boot rail (2 sides).
  - \* 2 @ 1-1/2" x 1-1/2" 22 GA angle (2 sides).
- Plaster flange available in 1" wide by 1" deep.
- Available in R4, R6 & R8 insulation.

**NOTE:**

Building code and classification require damper installation in accordance with manufacturer's instructions.



**Dimensional Data:**

Common Available Sizes	
W x H	Nom. Duct Size D
8 x 4	4", 5" dia.
10 x 4	4", 5", 6" dia.
12 x 4	6", 7" dia.
8 x 6	6" dia.
10 x 6	5", 6", 7" dia.
12 x 6	6", 7", 8" dia.
14 x 6	6", 7", 8" dia.
8 x 8	5", 6" dia.
10 x 8	7", 8" dia.
12 x 8	7", 8" dia.
14 x 8	6", 7", 8" dia.

W x H = Nominal Grille / Register Size.

Dimensions are in inches.

Contact Manufacturer for additional dimensions not listed.

**MODEL 505RD**