

Application

The RD-521-NP90 ceiling radiation damper employs butterfly style blades for point-of-origin control of radiant heat in HVAC systems. The RD-521-NP90 is installed horizontally in the ceiling membrane of combustible floor-ceiling or roof-ceiling assemblies with fire resistance ratings up to and including 1 hour. The RD-521-NP90 must have a field supplied outlet box installed on it.

Standard Construction

Frame: 22 gauge (0.85) galvanized steel.

Blades: 22 gauge (0.85) galvanized steel – butterfly. Insulated with ceramic refractory material.

Transition: None (field adaptation required).

Plaster Ground: 5/8" (16) deep × 1" (25) wide.

Closure Device: Fusible link.

Fire Closure Temperature: 165°F (75°C).

Minimum Size: 4" × 6" (102 × 152)

Maximum Size: Square: 12" × 12" (305 × 305)
14" (356) W or 10" (254) H with a maximum area of 144 in².
(929 cm²)

Options

- ☐ Alternate 212°F (100°C) fire closure temperature.
- ☐ VC — volume control device factory mounted:
- ☐ Boot rail installation set:
2 pieces 25" (635) long.

Ratings

UL 555C Fire Resistance Rating: 1 hour for installation in floor designs L-521, L-528, L-546, L-558, L-562, L-574, L-576, L-581, L-583, L-585, M-509, M-540 and in roof/ceiling designs P-522, P-533, P-538, P-545 and P-547.

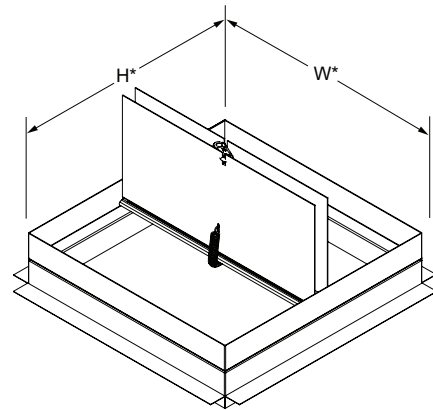
Listings

UL 555C listing: R14980

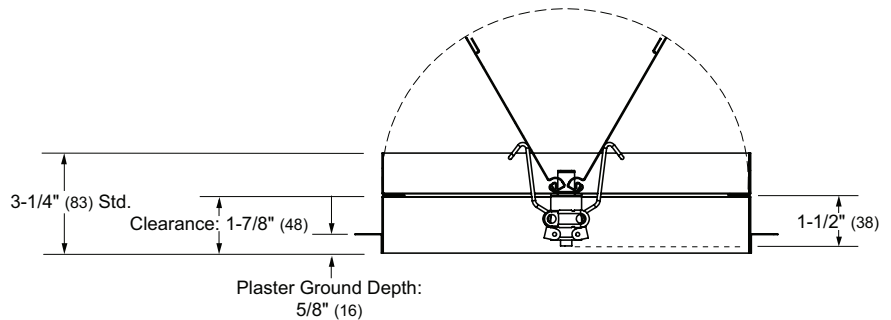
CSFM listing: 3226-1404:100

Meets NFPA Standards: 90A and 101

Meets Building Code Standards: IBC, NBC, NFPA, SBC and UBC



Model RD-521-NP90
(standard)
*Damper dimensions furnished
approximately 1/8" (3) undersized



RD-521-NP90 with optional VC