



model **RD521-BT**
 1 and 3 hour— ceiling radiation damper
 R-6.3 insulated outlet box — butterfly style blade

Application

The RD521-BT ceiling radiation damper employs butterfly style blades for point-of-origin control of radiant heat in HVAC systems. The RD521-BT is installed horizontally in the ceiling membrane of combustible and non-combustible assemblies with a fire-resistance rating up to and including 3 hours.

Standard Construction

Frame: 30 gauge (0.40) galvanized steel outlet box with 1 1/2" (38) thick fiberglass R-6.0 insulation.

Blades: 22 gauge (0.85) galvanized steel – butterfly.

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

Fire Closure Device: Fusible link.

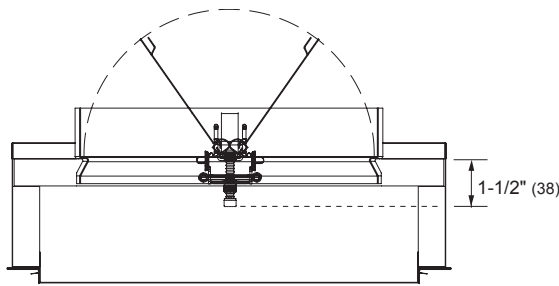
Fire Closure Temperature: 165°F (75°C).

Minimum Size: Grille Opening — 4" × 4" (102 × 102)
 Duct — 4" Ø(102 Ø).

Maximum Size: Grille Opening — Square: 12" × 12" (305 × 305)
 Rectangular: 24" (610) W or 24" (610) H
 with a maximum area of 144 in.² (929 cm²)
 Duct - 10"Ø (254Ø)

Options

- Alternate 1" (25) deep plaster ground.
- Alternate 212°F (100°C) fire closure temperature.
- VC — volume control device factory mounted.
- Boot rail installation set:
 2 pieces 25" (635) long.



RD521-BT with optional VC

Outlet Box Height Table	
Damper Diameter 'D'	Assembly Height 'T'
4" (102) to 6" (152)	6 1/2" (165)
7" (178)	7" (178)
8" (203)	7 1/2" (191)
9" (229)	8" (203)
10" (254)	8 1/2" (216)

Ratings

UL 555C Fire Resistance Rating: 1 hour (horizontal, for use in UL assemblies L-521, L-546, L-558, L-562, P-522, P-533 and P-538).

UL 555C Fire Resistance Rating: 3 hour (horizontal, for use in 1, 2 or 3 hour rated assemblies).

Thermal Resistance: R-6.3

Listings

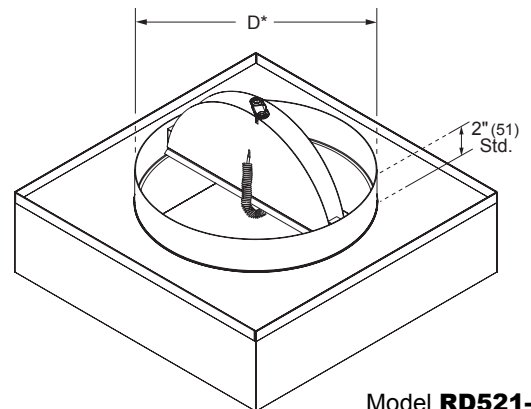
UL 555C listing: R14980

CSFM listing: 3226-1404:100

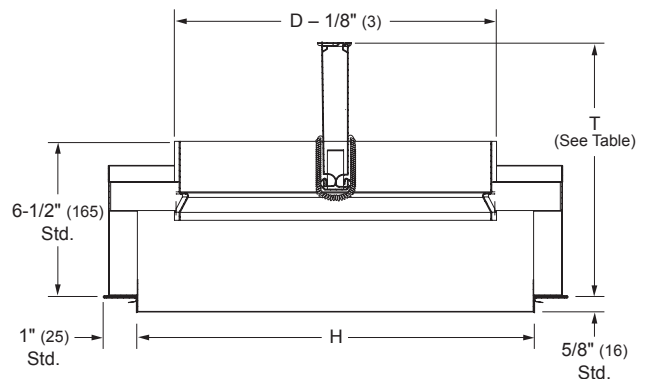
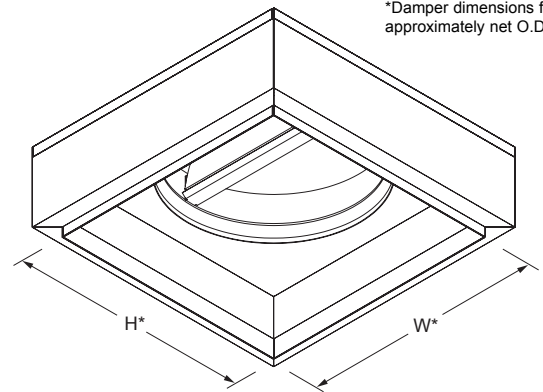
Warnock Hersey listing #: WHI-495-PSH-0177, -0178

Meets NFPA Standards: 90A and 101

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



Model RD521-BT (standard)
 *Damper dimensions furnished approximately net O.D.



Ceiling Radiation Dampers **RD521BT** (1/1) November 2009

Information is subject to change without notice or obligation.

NOTE: Dimensions in parentheses () are millimeters.