

Application

The RD2-SB ceiling radiation damper employs a single blade for point-of-origin control of radiant heat in HVAC systems. The RD2-SB is installed horizontally in the ceiling membrane of floor-ceiling or roof-ceiling assemblies with fire resistance ratings up to and including 3 hours. The CFD-15-SB is specifically designed to limit the blade intrusion in the airflow and thus minimize the pressure drop.

Standard Construction

Frame: 22 gauge (0.85) galvanized steel with integral sleeve.

Blades: 22 gauge (0.85) galvanized steel – single. Insulated with ceramic refractory material for dampers larger than 114 in.² (735 cm²).

Fire Closure Device: Fusible link.

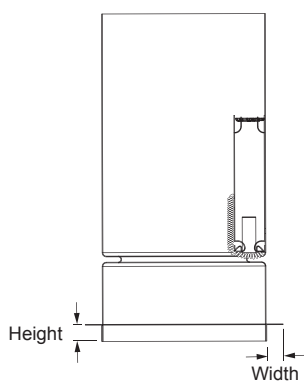
Fire Closure Temperature: 165°F (75°C).

Minimum Size: 4" × 4" (102 × 102)

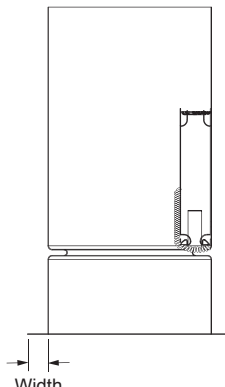
Maximum Size: 24" × 12" (610 × 305)

Options

- ☐ Transitions
 - ☐ Round ☐ Oval ☐ Square/Rectangular
 - ☐ Top ☐ Bottom Side: ☐ W ☐ H ☐ P ☐ Q
 - Collar depth: ☐ 2" (51) Std. ☐ 4" (102)
- ☐ Plaster Ground ☐ 5/8" (16) deep × 1" (25) wide Std.
 - ☐ 1 1/4" (32) deep × 1 1/4" (32) wide
 - ☐ 2" (51) deep × 1" (25) wide ☐ 4" (102) deep × 1" (25) wide
- ☐ Flanged: ☐ 3/4" (19) Std. ☐ 1" (25)
- ☐ Alternate blade protection — drywall for dampers larger than 114 in.² (735 cm²).
- ☐ Alternate 212°F (100°C) fire closure temperature.
- ☐ Thermal blanket for steel backed diffuser:
 - CRB-24 (Ceramic refractory blanket).
- ☐ WHI installation angle set:
 - 2 angles 1" × 1/2" × 28" long (25 × 13 × 711) × 20 ga. (1.0)
 - 2 angles 1" × 1/2" × 3" long (25 × 13 × 76) × 20 ga. (1.0)



Plaster Ground
(optional)



Flange
(optional)

Ratings

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

Listings

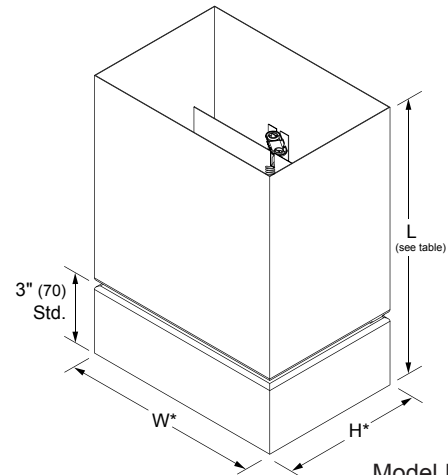
UL 555C listing: R14980

CSFM listing: 3226-1404:100

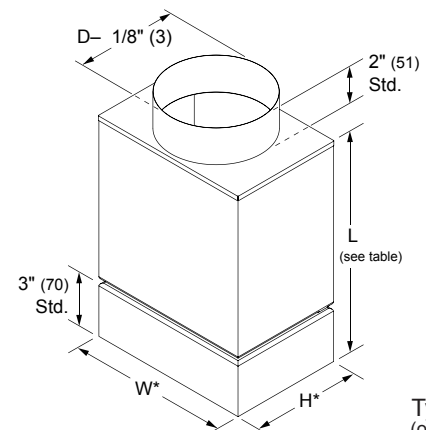
Warnock Hersey listing #: WHI-495-PSH-0177, -0178

Meets NFPA Standards: 90A and 101

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



Model **RD2-SB**
(standard)



Type R
(optional)
Round duct transition on top.

Sleeve Table	
Damper Height	Sleeve Length 'L'
H ≤ 9" (229)	12" (305)
9" (229) < H ≤ 11" (279)	14" (356)
H > 11" (279)	15" (381)

*Damper dimensions furnished approximately net O.D.