

Tag: _____ Engineer: _____
 Project: _____ Contractor: _____
 Location: _____ Architect: _____
 Date: _____ Submitted by: _____



**Model CDH-S/R-90 &
CDH-S/R-90-F**

Ceiling Radiation Damper in a
90° Boot For Wood Truss
Ceiling Applications



Qualifications:

Tested in accordance to standards UL 263/E119.

Certified by Intertek for use in 1 hour fire-rated floor/ceiling and roof/ceiling designs constructed in accordance with material and construction specifications of UL Design Numbers: L521, L528, L530, L546, L550, L562, L563, L570, L574, L579, L585, L586, M503, P522, P531, P538, P545 and P552.

Meets NFPA 90A requirements.

Application:

Ceiling dampers are designed to function as a heat barrier in openings penetrating fire resistive membrane ceilings. The model CDH-S/R-90(-F) (Butterfly and Single Blade versions) has been designed and tested to provide protection and simple installation in specific UL design wood truss ceiling assemblies.

The CDH-S/R-90(-F) assembly consists of a rectangular or square ceiling damper (butterfly blades or a single blade depending on size) mounted in the bottom of a sheet metal tapered 90 degree register box (boot), that accommodates a steel grille or register.

Construction:

1. UL listed fusible link, 212°F (100°C) standard.
2. Blades: 21 ga. G60 roll-formed galvanized steel (Butterfly shown).
3. Blade Insulation: Non-asbestos UL Classified.
4. Damper frame: 21 ga. G60 galvanized steel.
5. Steel plenum: 24 ga. max. with round connection collar.
6. UL Classified Class 0 or I Flexible Air Duct connection by others.
7. Plaster flange: 1" (25) wide by 1/2" (13) deep.
8. Steel grille/register (by others). Standard depth for grille clearance is 2 1/2" (64).

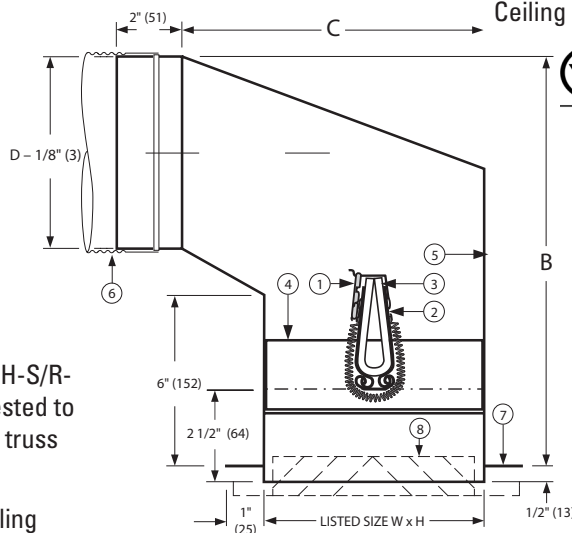
Options:

1. Non-standard temp. UL listed fusible link.
□ 165°F (74°C)
2. Installation Support Angles. 26" (660) long.
□ 2 @ Standard boot rail
□ 2 @ 1-1/2" (38) x 1-1/2" (38) x 20 ga.
3. Available Unflanged (without "F").
NOTE: Alternate boot rail installation not applicable on unflanged boot. Must use 1-1/2" (38) x 1-1/2" (38) x 20 gauge angle 4 sides.
4. Plaster flange avail. in 1" (25) wide by 1" (25) deep.

Notes:

1. Building code and Intertek Classification require damper installation in accordance with manufacturer's instructions.
2. Alternate boot rail installation not applicable on unflanged boot. Must use 1 1/2"x1 1/2" x 20 Ga angle 4 sides.

Dimensions are in inches (mm).



Dimensional Data:

Available Sizes			B	C
	WxH	Nom. Duct Size D.		
S I N G L E	8 x 4 (203 x 102)	4" (102) dia. 5" (127) dia.	11 1/2 (292) 11 (279)	8 (203) 8 (203)
	10 x 4 (254 x 102)	4" (102) dia. 5" (127) dia. 6" (152) dia.	11 1/2 (292)	8 (203) 7 3/4 (197) 7 1/4 (184)
	12 x 4 (305 x 102)	6" (152) dia. 7" (178) dia. 8" (203) dia.	12 1/2 (318) 12 (305) 13 1/2 (343)	7 3/4 (197) 7 1/2 (191) 7 (178)
	14 x 4 (356 x 102)	7" (178) dia.	13 (330)	7 1/2 (191)
	6 x 6 (152 x 152)	4" (102) dia. 5" (127) dia.	11 (279) 11 (279)	8 (203) 8 (203)
	8 x 6 (203 x 152)	6" (152) dia.	12 (305)	10 (254)
	10 x 6 (254 x 152)	5" (127) dia. 6" (152) dia. 7" (178) dia.	11 1/2 (292) 12 (305) 13 (330)	9 (229) 10 (254) 9 1/4 (235)
	12 x 6 (305 x 152)	6" (152) dia. 7" (178) dia. 8" (203) dia. 9" (229) dia.	13 (330) 13 1/2 (343) 14 (356) 14 1/2 (368)	9 (229) 9 1/4 (235) 10 1/4 (260) 11 (279)
	14 x 6 (356 x 152)	6" (152) dia. 7" (178) dia. 8" (203) dia. 9" (229) dia. 10" (254) dia.	12 1/2 (318) 13 1/2 (343) 14 1/2 (368) 14 1/2 (368) 14 1/2 (368)	10 (254) 9 1/4 (235) 9 3/4 (248) 10 (254) 10 1/4 (260)
	8 x 8 (203 x 203)	5" (127) dia. 6" (152) dia.	12 (305) 12 (305)	10 (254) 10 (254)
B U T T E R F L Y	10 x 8 (254 x 203)	7" (178) dia. 8" (203) dia.	13 1/2 (343) 14 (356)	9 3/4 (248) 10 1/4 (260)
	12 x 8 (305 x 203)	7" (178) dia. 8" (203) dia.	13 1/2 (343) 14 (356)	9 3/4 (248) 10 1/4 (260)
	14 x 8 (356 x 203)	6" (152) dia. 7" (178) dia. 8" (203) dia. 9" (229) dia. 10" (254) dia.	13 (330) 14 (356) 15 (381) 16 (406) 17 (432)	12 (305) 12 (305) 12 (305) 13 (330) 13 (330)

As part of our continuous improvement program, we reserve the right to make further improvements without notice.

Submittal - CDH-S/R-90(-F) - 0216