

CEILING RADIATION DAMPER

FOR WOOD TRUSS CEILING ASSEMBLIES GRILLE/DIFFUSER MOUNT STEEL OR FIBERGLASS PLENUM BY OTHERS

MODEL: CRD6



QUALIFICATIONS:

- UL 263 CLASSIFIED CEILING RADIATION DAMPER. Category CABS. (File # R9660) 1 hour rated for use in UL floor/ceiling design L550/L562/L574/L579/L585/M503 numbers roof/ceiling and design numbers P531/P538/P545/P547/P552. (Equal to designs L546/L521 and P522 respectively).
- **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 Series CRD has been especially designed and tested to provide protection and simple installation in specific UL design wood truss ceiling assemblies.

Model CRD6 rectangular ceiling damper is designed for use in a steel or fiberglass plenum (boot/register box) by others, that accomodates a steel grille, register or diffuser.

STANDARD CONSTRUCTION:

- 1. UL Listed Fusible Link, 212°F (100°C) Standard.
- 2. Blades: 22 ga. (0.85) G60 roll-formed galvanized steel.
- 3. Blade Insulation: Non-asbestos UL Classified.
- 4. Damper frame: 24 ga. (0.70). G60 galv. steel.
- 5. Plaster Flange: 7/8" (22)

OPTIONS:

DAMPER STYLE:

- CRD2 Butterfly Type Damper
- ☐ CRDC Low Profile Curtain Damper

NON-STANDARD TEMP UL LISTED FUSIBLE LINK:

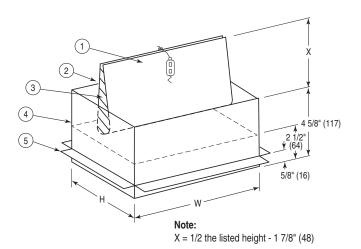
☐ 165°F (74°C)

INSTALLATION SUPPORT ANGLES. 26" (660) LONG.

- ☐ ISA2 @ 3/4" x 3/4" x 16 ga. (19 x 19 x 1.6) or
- ☐ ISB2 @ 1 1/2" x 1 1/2" x 22 ga. (38 x 38 x 0.85)

NOTES:

- 1. See page 2 for Field Supplied Steel or Fiberglass Plenum (by others) construction details.
- 2. Ceiling damper is a component of damper/plenum box assembly.
- 3. Building Code and UL Classification require damper installation in accordance with manufacturer's instruc-
- 4. See Installation and Operations Manual, document MAP-CRD6INST.



Note:

CRD2 Butterfly Type Damper shown is standard. CRDC Low Profile Curtain Damper also available.

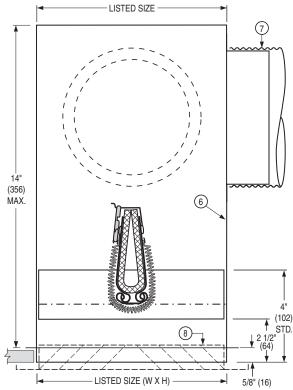
SCHEDULE TYPE:	Page 1 of 2				
PROJECT:	Dimensions are in inches (mm).				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.	
CONTRACTOR	6 10 12	CDD	NEW	CDD6	



Manufactured FOR WOOD TRUSS CEILING ASSEMBLIES GRILLE/DIFFUSER MOUNT STEEL OR FIBERGLASS PLENUM BY OTHERS

MODEL: CRD6





Plenum Con- struction	Plenum Type	Description/ Instal- lation	Min. Damper Size	Max. Damper Size	Max. Number of Collars
	А	90° Side Inlet	6 x 4 (152 x 102)	16 x 12 (406 x 305)	5
Steel	С	90° Side Inlet, Insulated	8 x 4 (203 x 102)	12 x 12 (305 x 305)	1
31661	D	90° Side Inlet, Tapered	8 x 4 (203 x 102)	14 x 8 (356 x 203)	1
	Е	Tapered, Top Inlet	8 x 4 (203 x 102)	12 x 12 (305 x 305)	1

STEEL PLENUM **CONSTRUCTION DETAILS:**

6. Steel plenum/sub-frame:

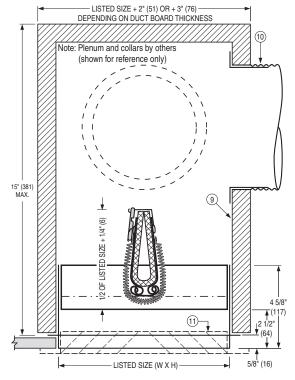
Uninsulated: 26 ga. (0.55) min. galv. steel with round connection collar.

Insulated: 28 ga. (0.47) min. galv. steel

Insulation: Semi rigid Type R-6, 1 1/2" (28) or Type R-8, 2" (51) fiberglass duct liner, min. density 1.5 pcf.

- 7. UL Classified Class 0 or I Flexible Air Duct connection by oth-
- 8. Steel grille/register/diffuser, 26 ga. (0.55) min., (by Nailor or others). Bottom of damper sub-frame is flush with ceiling. Standard depth for grille clearance is 2 1/2" (64).

Fiberglass Plenum (by OTHERS)



ASSIFIE

Plenum Con- struction	Plenum Type	Description/ Instal- lation	Min. Max. Damper Damper Size Size		er Number	
Fiberglass	А	90° Side Inlet	6 x 4 (152 x 102)	21 x 18 (533 x 457)	5	

FIBERGLASS PLENUM **CONSTRUCTION DETAILS:**

- 9. Fiberglass plenum/sub-frame:
 - Duct Board: 1" 1 1/2" (25-38), rigid (R4-R6)
- 10. Cutting and Installation of collar for UL Classified Class 0 or I Flexible Air Duct connection by others.
- 11. Steel grille/register/diffuser, 26 ga. (0.55) min., (by Nailor or others). Bottom of damper sub-frame is flush with ceiling.

Standard depth for grille clearance is 2 1/2" (64).

NOTES:

- 1. See min/max damper size restriction by Plenum Construction/Plenum Type, above.
- 2. Refer to document MAP-CRD6INST for Supplementary Installation Instructions for Field Fabrication of Steel or Fiberglass Plenums (by others).

SCHEDULE TYPE:	Page 2 of 2				
PROJECT:	Dimensions are in inches (mm).				
ENGINEER:	DATE	B SERIES	SUPERSEDES	DRAWING NO.	
CONTRACTOR:	6 - 18 - 13	CRD	NEW	CRD6	