LLOYD INDUSTRIES INC.

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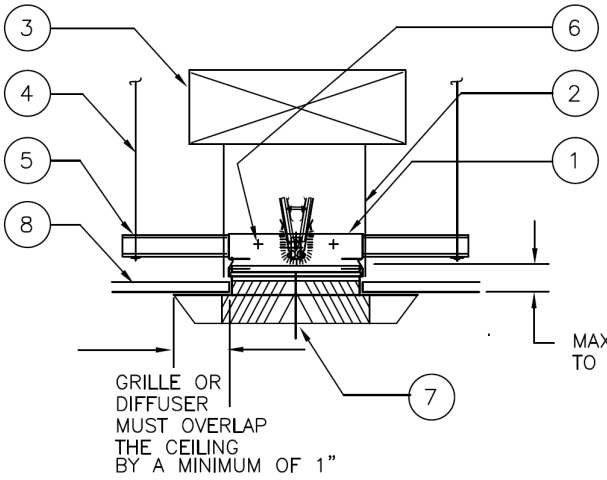
CEILING RADIATION DAMPERS

INSTALLATION INSTRUCTIONS

MODEL CRD-55 and CRD-55-EA (ROUND)



ITEM

1. MODEL 55 CRD (ROUND) CEILING RADIATION DAMPER
2. STEEL DUCT DROP
3. BRANCH DUCT
4. 12 SWG HANGER WIRES (4) MIN REQUIRED
5. STEEL SUPPORT CHANNELS
6. MOUNTING FASTENERS (BOLTS, SCREWS, RIVETS)
7. SURFACE MOUNTED STEEL GRILLE OR DIFFUSER
8. CEILING : ACOUSTICAL PANEL (LAY-IN) ACOUSTICAL TILE OR GYPSUM WALLBOARD

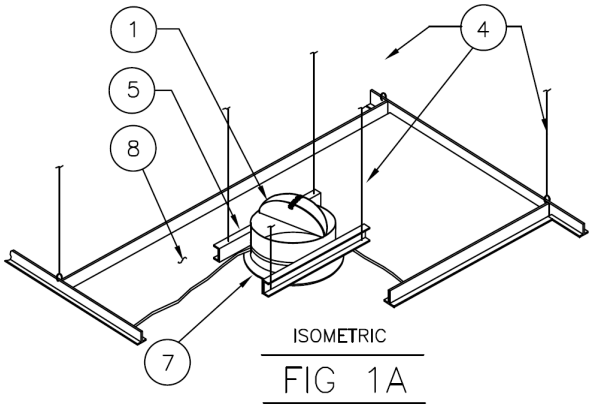


FIG 1A

These ceiling dampers are Classified by Underwriters Laboratories, Inc. as to heat barriers in the Fire Resistance Directory under the category of Ceiling Dampers (CABS). Refer to the Classification information in the back of the Fire Resistance Directory regarding the use of these dampers in the various floor / ceiling or Roof / ceiling assemblies. Ceiling dampers and the associated components (surface mounted diffusers or grilles, ducts, etc.) which are to be constructed of steel, are installed in the ceiling to maintain the hourly ratings of the floor-ceiling or roof-ceiling assemblies which are rated 3 hours or less.

Notes:

1. Before installing damper, Model 55 CRD (round), open blades and hook fusible link over link catch on opposite blade. Bend down link catch to secure link in position.

2. Support the duct with (2) 16 ga. cold-rolled steel support channels, 1-1/2 or 2 inches deep with 1/2 inch flanges. Place the support channels at the bottom of the duct adjacent to both sides of the duct drop. Use 12 SWG galvanized steel hanger wire to independently support channels from the structural members of the floor or roof above. All hanger wires shall supported directly from the structural members of the floor or the roof by vertical (not diagonal) hanger wires. Cold-rolled channels shall be used as required to insure that the grid and damper are supported from the structural members by vertical hanger wires (not diagonal).

3. Install the ceiling damper in the duct drop using 3/16 inch diameter by 1/2 inch long steel bolts, No. 8 by 1/2 inch steel sheet metal screws or 3/16 inch diameter by 1/2 inch long steel bolts, No. 8 by 1/2 inch steel sheet metal screws or 3/16 inch diameter steel rivets at 6 inches o.c. and a minimum of (3) places.

4. The clearance between each side of the ceiling damper and the duct drop shall be 1/8 inch maximum.

5. Maximum size of Model 55 CRD (round) is 24 inches in diameter.

6. Duct outlets in lay-in ceilings should be field located in an acoustical ceiling panel or tile. Where it is necessary to cut a main runner or cross tee, each cut end shall be supported by a vertical 12 gauge hanger wire. A 1/2 inch clearance shall be maintained between the duct outlet and each cut end of main runner or cross tee. The duct outlet shall be located so that no more than one main runner or cross tee is cut when penetrating the ceiling membrane.

7. Steel grille or diffuser to be attached to the duct drop or ceiling damper using No. 8 by 1/2 inch long sheet metal screws at 6 inches o.c. and a minimum of (3) places.

CLASSIFIED UL C UL US

INSTALLATION INSTRUCTIONS AND THE PRODUCTS SPECIFIED, ARE IN CONFORMANCE TO ALL OF UNDERWRITERS LABORATORIES REQUIREMENTS 555C

ROUND CEILING DAMPER SIZE LIMITATION

Maximum Size	Maximum Diameter	Minimum Diameter
452 SQ.IN.	24"	4"

*ALL STATED SPECIFICATIONS ARE SUBJECT TO UPDATE WITHOUT NOTICE OR OBLIGATION.