

# INSTALLATION INSTRUCTIONS

## Series 55 Round - CRD

### Non-combustible Partition Ratings Of 3 Hours Or Less Ducted Supply Or Return

#### GENERAL NOTES:

These ceiling dampers are Classified by UL 555C as 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.

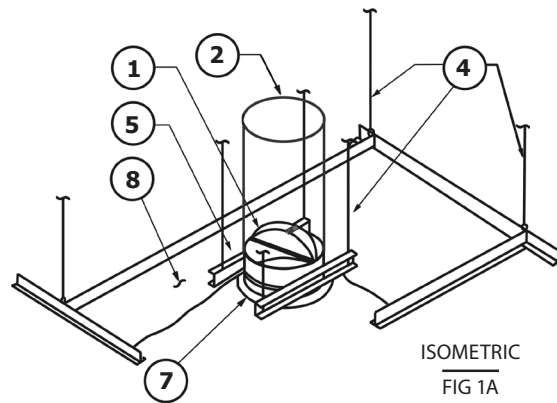
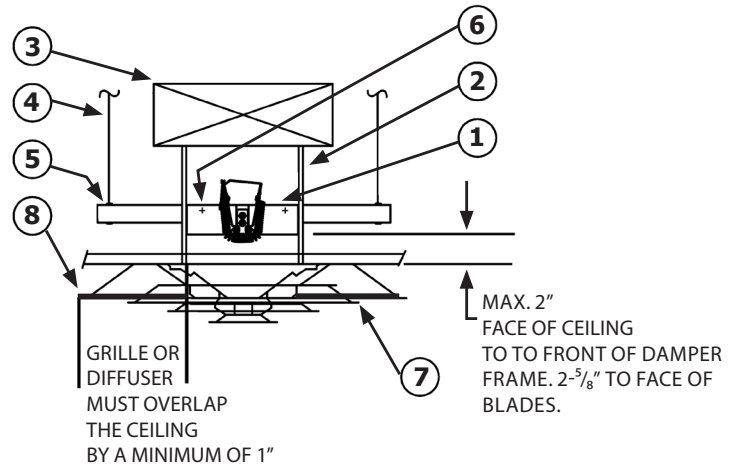
#### NOTES:

1. Before installing the damper, set fusible link in place.
2. Support the duct with (2) 16 ga. cold-rolled steel support channels, 1½" or 2" deep with ½" flanges. Place the support channels at the lower end of damper frame adjacent to both sides of the duct drop. Attach in minimum of 2 places, each side. Refer to #3 for fasteners. 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 be 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 ensure 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 ¾" diameter x ½" long steel bolts, #8 x ½" steel sheet metal screws or ¾" diameter steel rivets at a maximum of 3 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 ⅛" maximum.
5. Ceiling dampers 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 ga. hanger wire. A ½" 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, and only if necessary.
6. Steel grille or diffuser to be attached to the duct drop or ceiling damper using #8 x ½" long sheet metal screws or ¼" tack welds.
7. Fastener locations must not interfere with damper blade operation.

#### ROUND CEILING DAMPER SIZE LIMITATIONS

**MAXIMUM SIZE 452 SQ. IN.**

| MAXIMUM SIZE | MAXIMUM DIAMETER | MINIMUM DIAMETER |
|--------------|------------------|------------------|
| 55SL         | 24"              | 4"               |
| 55EA         | 24"              | 5"               |



1. Series 55 Ceiling Radiation Damper
  2. Steel duct drop (less #3 plenum permitted)
  3. Branch duct
  4. 12 SWG Hanger wires (4) min. req'd.
  5. Steel support channels
  6. Mounting fasteners (bolts, screws, rivets)
  7. Surface mounted steel grille, diffuser, or drop ducting to plenum
  8. Ceiling: acoustical tile/panel (lay-in) or gypsum wallboard
- \*Bearing the UL Classification marking

Installation Instructions In Conformance To Underwriters Laboratories Requirements

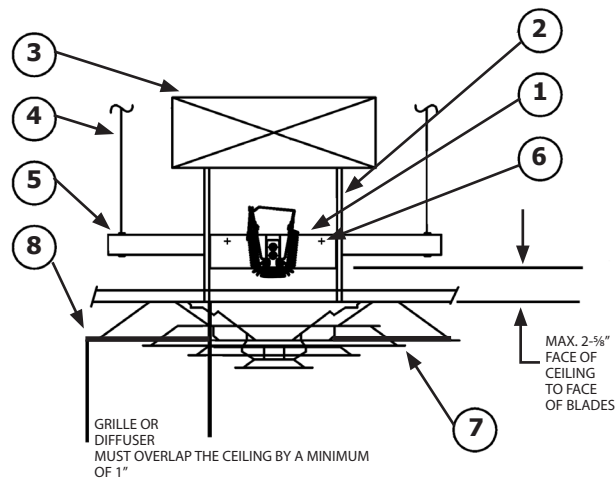
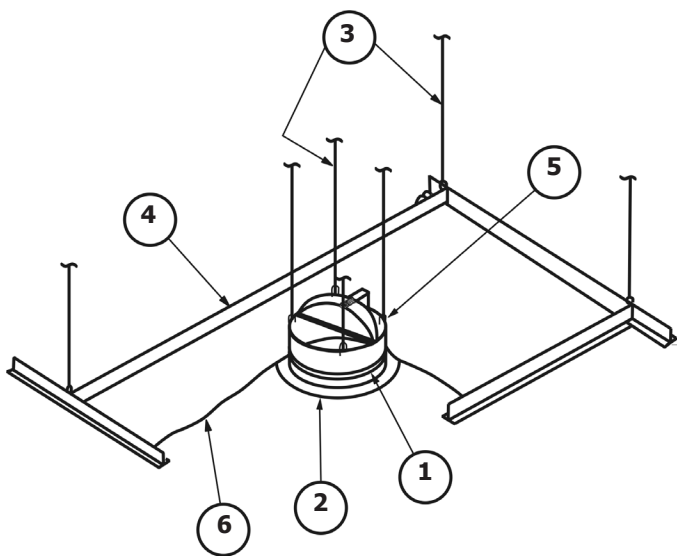
These instructions have been reviewed by UL and found to comply with all applicable requirements of UL 555C at the time of evaluation.

ALL INSTALLATIONS ARE SUBJECT TO LOCAL AUTHORITY APPROVAL PRIOR TO ORDERING DAMPERS AND DAMPER INSTALLATION

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#### ITEM DESCRIPTION

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2. Steel duct drop (less #3 plenum permitted)
3. 12 SWG Hanger wires (4) min. req'd.
4. Steel support channels
5. Mounting fasteners (bolts, screws, rivets)
6. Ceiling: acoustical tile/panel (lay-in) or gypsum wallboard

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6. Mounting fasteners (bolts, screws, rivets)
7. Surface mounted steel grille or diffuser or drop ducting
8. Ceiling: acoustical tile/panel (lay-in) or gypsum wallboard

#### INSTALLATION INSTRUCTIONS:

1. Before installing the damper, set fusible link in place.
2. Support the damper with (2) 16 ga. cold-rolled steel support channels, 1½" or 2" deep with ½" flanges. Place the support channels at the lower end of the damper frame adjacent to both sides of the damper. Attached in 2 places, each side. Use 12 SWG galvanized steel hanger wire to independently support channels on each end, from the structural members of the floor or roof above. Refer to line item #6 for locations. All hanger wires shall be 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. The clearance between each side of the ceiling damper and lay-in panel shall be ⅛" maximum.
4. Ceiling Dampers 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 ga. hanger wire. A ½" clearance shall be maintained between the ceiling damper and each cut end of main runner or cross tee. The ceiling damper shall be located so that no more than one main runner or cross tee is cut when penetrating the ceiling membrane, and only if necessary.
5. Steel grille or diffuser to be attached to the sleeve or ceiling damper using No. 8 x 1½" long sheet metal screws, or ¼" tack welds.
6. Fastener positions must not interfere with damper blade operation.

